June 24, 2013

Second Quarter 2013 Groundwater Monitoring Report

Former Powerine Refinery
12345 Lakeland Road, Santa Fe Springs, CA

SLIC No. 0318, ID No. 2040071
CAO 97-118

Prepared on Behalf of

Isola Law Group, LLP
Lodi, California

Prepared for

Regional Water Quality Control Board
Los Angeles Region

Prepared By

MUREX environmental, inc

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1.0 INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Second Quarter 2013 Groundwater Monitoring Report* for the former Powerine Refinery property located at 12345 Lakeland Road in Santa Fe Springs, California (Site; **Figure 1**).

1.1 Purpose

The objective of the quarterly groundwater monitoring is to evaluate groundwater quality beneath the site and adjacent properties (**Figure 2**) and to provide regular updates to the Regional Water Quality Control Board, Los Angeles Region (RWQCB). This report presents the groundwater monitoring activities performed between March 29, 2013 and April 15, 2013, in accordance with the RWQCB Cleanup and Abatement Order (CAO) No. 97-118.

1.2 Site Description and History

The Site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (**Figure 2**). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to a CAOs (No. 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1997 (Haley & Aldrich, 2005).

2.0 GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in January and February 2013. The following subsections summarize work completed during the second quarter 2013 monitoring event.

2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes the existing 59 wells, as listed in **Table I** and shown on **Figure 2**. These wells include:

- Twenty-two on-Site groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;

- Twenty-five down-gradient off-Site groundwater monitoring wells of which:

    - Four are located on the former Lakeland (aka "Coaster") property: MW-501A, MW-502, MW-503B, and MW-707; and

    - Twenty-one are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, MW-708, MW-709, MW-710, MW-711, MW-712, MW-713, MW-714, MW-715, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;

- Seven off-Site groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;

- Three off-Site groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and

- Two on-Site, deep, former water production wells identified as W-7 and W-8.

2.2 Groundwater Gauging

Murex inspected and measured the depth to groundwater in all 59 of the wells on March 29, 2013. During gauging, wells are also checked for the presence and thickness of free-phase petroleum hydrocarbons (FPPH) product. Of those, 19 wells were dry, and three wells contained free-phase petroleum hydrocarbon (FPPH).

Table II summarizes the groundwater elevation and free product thickness measurements.

2.3 Free-Phase Petroleum Hydrocarbon (FPPH) Measurements

Wells that initially exhibit the presence of FPPH are purged until they become dry or until approximately 6 to 10 well volumes are evacuated. Thereafter, the wells are inspected for the return of FPPH and if present, its thickness is measured. For wells in which FPPH does not return, groundwater is sampled for analysis. Further discussion of the wells exhibiting free product is presented in **Section 3.2**.

2.4 Groundwater Purging

The groundwater monitoring wells that contained groundwater, with the exception of production wells W-7 and W-8, were purged via a dedicated vacuum stinger that was connected to a truck-mounted vacuum pump truck operated by Nieto & Sons. W-7 and W-8 are deep production wells and are sampled without purging water from them first. During purging, extracted groundwater volume and quality were recorded. The parameters measured during purging were temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in **Table IV**. Purged groundwater was disposed of by Nieto & Sons at the wastewater treatment system in operation at the Site.

2.5 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected by disposable bailer from the wells, placed in sample containers, stored in pre-cooled ice chests, and transported under proper chain-of-custody procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) #2250.

The chemicals of concern (COCs) impacting groundwater in the area of study include total petroleum hydrocarbons as gasoline (TPHg), BTEX compounds (i.e., benzene, toluene, ethylbenzene, and xylenes), and petroleum product additives (i.e., oxygenates) and breakdown byproducts, such as methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA). Therefore, collected groundwater samples were analyzed for the following:

- TPHg by U.S. Environmental Protection Agency (USEPA) Method 8015M, and
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B.

Results of these analyses are summarized in **Table III**. Results of the field-measured parameters are shown in **Table IV**.

2.6 Quality Assurance/Quality Control

In accordance with the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

2.6.1 Trip Blanks

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

2.6.2 Duplicates

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells MW-503B, MW-706, MW-708, and MW-713. This represents a duplicate frequency equal to approximately 13% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples. The results of the duplicate analyses are included with the original sample results in **Table III**.

2.6.3 Equipment Blanks

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

2.6.4 Laboratory QA/QC Program

Laboratory QA/QC reports were reviewed to confirm proper completion of data validation tests, including batch QC results, method blanks, laboratory control samples, matrix spikes, and duplicates. The results of lab QC tests were within acceptable limits.

3.0 RESULTS & DISCUSSION

This section presents the results of the second quarter 2013 groundwater monitoring event. As mentioned earlier in the report, well completion details are provided in **Table I**. Groundwater level measurements and groundwater elevations are summarized in **Table II**. Comprehensive analytical results, including historical and recent results, are compiled in **Tables III**. **Table IV** contains a summary of bio-attenuation and field-measured parameter readings.

Figure 3 shows the groundwater elevation measured at each monitoring well, as well as the overall gradient and direction of groundwater flow on-Site. **Figure 4** depicts the same information for the entire monitoring well network. **Figure 5** shows the concentrations and estimated contour lines of TPHg measured in each well, and **Figure 7** shows similar concentrations and contour lines for benzene and MTBE.

Well measurement and groundwater sampling forms are attached as **Appendix A**. Laboratory reports and completed chain-of-custody forms are included in **Appendix B**.

The presentation of the chemical testing results in this report does not distinguish between constituents in groundwater that likely originated from the Site and those that are resultant from other sources located off-Site. Chemicals in groundwater related to off-Site sources are further discussed in Section 4.3.

3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (**Tables I and II**). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on **Figure 4**.

Based on groundwater level measurements obtained on March 29, 2013, first-encountered groundwater beneath the site vicinity ranges in elevation from 15.74 to 51.29 feet above mean sea level (ft-amsl). Wells W-7 and W-8 are former production wells, with screens situated deeper than 500 feet below ground surface (ft-bgs). Their elevations were higher, between 48.87 and 63.91, respectively.

In general, groundwater elevations were lower to those measured in the first quarter 2013 monitoring event. For the wells that are constructed to a depth of about 125 ft-bgs or less,

groundwater elevations had exhibited steady decreases for several years until the third quarter 2010, when they experienced a significant increase. By the fourth quarter 2012, the groundwater elevations apparently leveled off, and it appears that groundwater elevations in the Site vicinity are now experiencing a decreasing trend. The groundwater elevations in the wells screened deeper (greater than 125 ft-bgs and up to 200 ft-bgs) appear to indicate similar patterns to the shallower screened wells. As a whole, the average change in groundwater elevation over all the wells measured was a decrease of approximately 3.55 feet from the first quarter 2013 sampling event. **Appendix C** includes hydrographs depicting the change in groundwater elevation over time for all the wells.

The average horizontal groundwater gradient is approximately 0.008 foot per foot (ft/ft), as shown in **Figure 4**, which was similar to the previous monitoring period, and represents what is considered a moderately steep gradient. The groundwater flow direction originates from the northeast and turns south across the area of study. This flow direction is relatively consistent with those historically reported in previous investigations.

3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid or LNAPL, was detected in monitoring wells EW-1, W-15A, and MW-708 (**Table II**). Well W-15A continues to exhibit FPPH, which was first measured in 2011. FPPH was measured at a thickness of 0.88 feet in EW-1, 2.51 feet in W-15A, and 0.27 feet in MW-708. During previous monitoring events going back many years, FPPH was also historically detected in wells MW-101, MW-103, MW-104, MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-501, MW-502, MW-503, MW-503B, MW-504, MW-600, MW-600A, MW-601, MW-601A, W-3A. The majority of these wells are now dry.

Over the previous two years, groundwater samples were collected from wells containing FPPH, after the FPPH was removed through vacuum purging. This exercise produced qualitative data for wells that would not have been sampled otherwise. The data resulting from these samples is considered imprecise given the possibility that minute quantities of FPPH were present in the sample collected. Having collected several rounds of sample data in 2011 and 2012, Murex plans to return to the previous operating procedure whereby wells containing FPPH are not sampled.

3.3 Groundwater Analysis

Within the area of study, COCs impacting groundwater include TPHg, BTEX, MTBE, and TBA. The following text presents the sampling results of the current groundwater monitoring event. Laboratory analytical results are summarized in **Table III**; laboratory reports and

completed chain-of-custody forms are included in **Appendix B**. Field-measured parameters are presented in **Table IV**.

3.3.1 Chemicals of Concern (COCs)

Gasoline is the major release product associated with the Site and is present in the Site's groundwater monitoring network as FPPH. Constituents of gasoline include BTEX compounds, in addition to oxygenated additives and breakdown byproducts, such as MTBE and TBA. The analytical result of each COC was compared to the established California Maximum Contaminant Level (MCL) in drinking water, as applicable. The following table presents the MCL for each COC, as well as the minimum and maximum concentrations detected for the current monitoring event.

Constituent	MCL (µg/L)	Q2 2013 Monitoring Event	
		Minimum Value (µg/L)	Maximum Value (µg/L)
TPHg	N/A[1]	96	25,000
Benzene	1	0.7	5,000
Toluene	150	0.61	1,500
Ethylbenzene	300	0.58	510
Xylenes (total)	1,750	0.56	2,720
MTBE	13	2.1	800
TBA	12[2]	19	350

[1] *Not applicable – MCL not established for TPHg*

[2] *California Notification Level (former Action Level) – MCL not established for TBA*

The analytical results for the current monitoring event indicate that concentrations of COCs within the area of study are generally similar to previous monitoring events. Elevated concentrations of TPHg, BTEX, MTBE, naphthalene, and 1,2,4-trimethylbenzene are apparent in the southwest portion of the Site, and in a dissolved-phase plume that extends south to the central portion of the MSH property. In addition to the aforementioned constituents, this plume also contains elevated concentrations of TBA and 1,3,5-trimethylbenzene. To the east (cross- to up-gradient) of the Site's monitoring network, elevated concentrations of TPHg, benzene, naphthalene, and TBA are present, though the source of these constituents is unknown.

Analytical results and isoconcentration contours are presented in **Figure 5** (TPHg), **Figure 6** (benzene), and **Figure 7** (MTBE).

3.3.2 Other VOCs

In addition to the aforementioned COCs, several additional VOCs were detected in groundwater during this monitoring event. Some of these compounds, such as naphthalene, n-propylbenzene, and trimethylbenzene, for instance, are related to petroleum hydrocarbon releases.

Conversely, also detected were chlorinated solvents, such as tetrachloroethylene (PCE), trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), and cis-1,2-dichloroethene (cis-1,2-DCE), among others, which we believe are the result of off-Site contamination entering the Powerine well network.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and up-gradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

3.3.3 Biodegradation Parameters

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe^{3+})-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{3+}, sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{3+} reduction will begin if Fe^{3+} is present. Fe^{3+} concentrations will decrease, while Fe^{2+} concentrations will increase. After most Fe^{3+} is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

3.3.3.1 Field-Measured Parameters

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 33 monitoring wells using an YSI 556 water quality meter (**Table IV**). The meter was inserted into grab water samples, collected from the vacuum truck intake during well purging.

Wells MW-104A, MW-106A, and W-10 did not generate enough groundwater volume during purging sufficient enough to collect water quality parameters during sampling.

• **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 7.55 to 8.45, indicating a neutral to slightly alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.

• **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration. The vacuum stinger method used to purge the wells introduces oxygen into the groundwater. Therefore, DO data is not representative of the actual oxygen content. It is likely very low in wells exhibiting higher TPH concentrations, since oxygen is the first compound used up in the biological degradation of petroleum.

• **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Negative ORP values were observed in 27 of the 33 wells measured.

ORP values ranged from -251.8 mV in well MW-107A to 88.1 mV in Well MW-709. **Figure 8** presents concentrations for ORP.

Hydrogen sulfide (produced from the reduction of sulfate in groundwater, after oxygen is used up) was detected during purging of wells exhibiting elevated TPH concentrations and low or negative ORP values, which is consistent with our understanding of the conceptual site model, and indicates that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

3.3.4 QA/QC

Duplicate sample results are provided with their primary sample results in **Tables III**. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory, with the following exception.

A duplicate sample was collected at well MW-708. It should be noted that the results of TPHg for the two samples were identified as exhibiting a greater than 10% variance (25 mg/L and 240 mg/L). The concentration of 240 mg/L is not considered representative due to its abnormally elevated result. As discussed in Section 3.2, the presence of FPPH in well MW-708 prior to purging is likely the cause of this variance, since a small amount of FPPH could have entered the well between the time that the two samples were collected. The concentration of TPHg in well MW-708 is therefore simply considered to be elevated, likely between the 25 mg/L and 240 mg/L results.

Trip blank samples did not indicate the presence of VOCs, which indicates proper sample storage and confirms a lack of cross-contamination during transport, with the following exception. The trip blank submitted with samples collected on April 15, 2013 exhibited a concentration of naphthalene at 1.2 µg/L. However, the samples that accompanied this trip blank, MW-704 and MW-706, did not show elevated concentrations of naphthalene compared to recent/historical results for these wells. Naphthalene was detected at a concentration of 57 µg/L in the sample collected from well MW-704, which is similar to the concentration detected in the previous monitoring event (44 µg/L), and is in line with historical results for this well that range from 3.6 µg/L to 150 µg/L over the last several monitoring events. Naphthalene was not detected at or above its laboratory reporting limit of 1.0 µg/L in neither the initial sample collected from well MW-706 nor its duplicate sample. It should also be noted that the trip blank sample was prepared and provided by the analytical laboratory. Therefore, the detection of naphthalene in the trip blank sample is considered a laboratory cross-contaminant and did not appear to affect the results of the accompanying field samples.

Laboratory method blanks did not indicate the presence of VOCs, which indicates that laboratory detection equipment did not exhibit cross-contamination.

Laboratory control and laboratory spike samples exhibited results within acceptable limits, indicating no matrix interference and that the detection equipment was working properly.

4.0 SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former Powerine refinery in April 2013 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 59 wells and collecting samples from 40 of those wells for analysis of TPHg and VOCs.

4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.008 ft/ft was calculated for the second quarter 2013 groundwater monitoring event. This is consistent with historical gradient data for the site vicinity. Averaging all the wells exhibiting measurable groundwater, elevations have decreased by approximately 3.55 feet since the previous quarter. Groundwater flows from the northeast and turns due south across the area of study, which is consistent with historical measurements. Deep-screened production wells W-7 and W-8 exhibited decreases of approximately 0.5 to 1.3 vertical feet in groundwater elevation this quarter; this is likely due to the cessation of municipal water pumping operations in near proximity of the site.

4.2 Free-Phase Petroleum Hydrocarbons

Measureable free product was identified in wells EW-1, W-15A, and MW-708. These wells have exhibited FPPH in the past; although it first appeared in W-15A in 2011. The FPPH thickness measured in these wells (0.88, 2.51, and 0.27 feet, respectively) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex has conducted a study to compare the characteristics (i.e., “fingerprints”) of FPPH samples taken from several of the monitoring wells, including wells that do not currently contain FPPH. Samples of FPPH were collected from wells W-11, MW-503B, MW-708, EW-1, and W-15A. All the samples were then submitted for fingerprinting analysis to Zymax Forensics Laboratory in Escondido, California on September 21, 2011. The findings of this study were submitted to the RWQCB on January 25, 2012 as an addendum to the June 30, 2011 FPPH Investigation Report and indicate the presence of multiple possible sources of petroleum releases that have impacted groundwater within the Powerine study area. For instance, FPPH is present in well EW-1, but TPHg and benzene concentrations are comparatively low, indicating a non-gasoline release, such as fuel oil or other petroleum product.

4.3 Groundwater Quality

The highest concentrations of TPHg detected during this sampling event were beneath the northern and central portions of the MSH (**Figure 5**). The maximum verifiable detected concentrations of TPHg were 25 mg/L in well MW-711, 8.3 mg/L in well MW-713, and 5.8 mg/L in well MW-712 (while the sample collected from MW-708 exhibited a TPHg concentration of 25 mg/L, it also contained FPPH prior to purging; therefore, the quantification of TPHg in the dissolved phase is considered potentially erroneous). Wells MW-708, MW-711, MW-712, and MW-713 are located south of the Coaster property in the north-central portion of the MSH.

Benzene, toluene, ethylbenzene, xylene, and other compounds associated with petroleum hydrocarbons largely mimic TPHg in their presence and relative concentrations in the areas associated with the plume. The maximum concentration of benzene was detected in well MW-713 at 5,000 µg/L, located south of the Coaster property in the central portion of the MSH property (**Figure 6**). The maximum concentration of MTBE was also detected in well MW-713 at 800 µg/L, located in the central portion of the MSH property (**Figure 7**) at a distance of approximately 2,000 feet from the site. Several factors, including the results of the September 2011 FPPH forensics study, indicate that more than one type of hydrocarbon release is present in well W-15A.

Changes in the petroleum hydrocarbon plume may be reflective of fluctuations in groundwater elevation. Free-phase hydrocarbons, less dense than water, often remain above the water table in a "smear zone" as groundwater elevations fall. Residual impacts in the smear zone are expected to continue to cause variation in dissolved-phase concentrations and effect when and where FPPH are measured. Murex will continue to monitor the hydrocarbon plume within the well network and provided regular updates to the RWQCB through the monitoring and reporting program. Having performed an extended study of FPPH in 2011 and 2012, Murex plans to discontinue the sampling of wells that contain FPPH in future events, which is consistent with historical practice.

4.3.1 Off-Site Sources of Petroleum Hydrocarbons

In addition to historic releases from the Site, data collected from the monitoring well network (**Figures 4, 5, and 6**) exhibits evidence of other sources. Some observations that would support the presence of alternative sources are: (1) the comparatively clean appearance of FPPH in well W-15A versus the weathered or cloudy appearance of FPPH in wells EW-1, MW-503B, and MW-708; (2) the historical presence of FPPH in wells EW-1 and W-3A, which are located east and cross-gradient of the former refinery.

In order to complete characterization of the plume, Murex will be recommending the installation of additional groundwater monitoring wells in the Site's area of study, as further discussed in **Section 4.5**.

4.3.2 Discussion of Solvent Detections

Data collected from the monitoring well network (**Table III**) exhibits the presence of substances not linked to historic releases at the Site, including chlorinated solvents. The following observations were made regarding the additional detected chemicals in groundwater within the former Powerine refinery monitoring well network.

During this sampling event, elevated PCE and TCE concentrations (i.e., between 75 and 89 µg/L) were measured in well MW-710. This is consistent with previously measured high values from MW-710. Historically, these compounds were also detected in wells MW-107A, MW-701, and MW-14C.

Cis-1,2-DCE was found in 16 of the wells sampled at concentrations generally consistent with historical levels. 1,1-DCE was detected at an elevated concentration of 41 µg/L in well MW-710. Historically, wells W-14A, W-14B, and W-14C also exhibited elevated concentrations of these constituents.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and up-gradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

4.3.3 Assessment of Vapor Risk from Groundwater Plume

At the direction of the DTSC, Murex has conducted an off-site soil gas sampling study. The results, presented to the RWQCB and DTSC in the November 7, 2011 *Off-Site Soil Gas Survey Report*, indicate that the petroleum hydrocarbon plume does not pose a threat to off-site receptors as a result of volatilization from groundwater.

4.4 Biodegradation

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate, Fe^{2+}, methane, alkalinity, and ORP results from previous sampling events conducted at the site. Oxygen has been depleted, as evident by the presence of hydrogen sulfide in the deep subsurface (sulfate reduction reactions result in the formation of hydrogen sulfide). Since the main limiting factor for biodegradation of petroleum hydrocarbons is oxygen, the mechanical introduction of oxygen could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex conducted pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern and reduce the extent of groundwater contamination. Based on the results and data collected during pilot testing, it appears that a combination of remedial technologies would be suited for the site. The results and conclusions of this study were submitted to the RWQCB in the Pilot Testing Report dated November 21, 2011.

4.5 Additional Characterization

Murex has studied groundwater characteristics in the Site vicinity and will be recommending to the RWQCB the installation of additional groundwater monitoring wells in the area of study. The objective of this proposed work is to better define the lateral extent of free product and dissolved-phase petroleum impacts in the vicinity of the Site. In addition, Murex intends to identify where and to what extent petroleum impacts may be resultant from sources other than the Site, and where multiple plumes, if applicable, have become comingled.

5.0 REFERENCES

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6. Haley & Aldrich, Inc. 2005. *Additional Site Investigation Work Plan, CENCO Refining Company.* May 9.

6.0 CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,
MUREX ENVIRONMENTAL, INC.

Jeremy R Squire, P.E.
Senior Engineer

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation					Completion Data																Location	Reference(s)[1]
			Elevation				Screen		Depth (ft)						Elevation (ft)							
Well ID	Date	By	Ground Surface (ft)	Top of Casing (ft-amsl)	Hole Diameter (in)	Casing Diameter (in)	Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
									Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing	Hole		
Groundwater Monitoring Wells																						
EW-1	1989	Emcon	146.85	146.85	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	-	Walker	Versar (2000)
MW-101	8/28/1985	IT	145.19	138.00	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	137.18	139.36	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	-	12	4	-	20	-	-	76.5	96 5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	142.38	144.13	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro	-	141.16	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	-	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.92	152.81	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	-	-	4	-	-	-	-	75	105	107 55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	147.37	147.02	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.86	135.65	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139 00*	140.62	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	144.08	143.71	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	141.15	142.90	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	140 00*	140.09	12	4	-	30	65.5	103	69.5	99 5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206[2]	9/18/1985	IT	-	-	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	-	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	131.26	130.89	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	131.88	131.00	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	-	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	133.03	132.66	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	137.18	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	-	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.28	124.26	-	4	-	-	-	-	-	-	92.7	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	-	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar	-	-	-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	121.40	120.95	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	140.52	140.07	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	117.40	116.82	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	116.90	116.06	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	128.92	128.28	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	145.19	144.81	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2[2]	12/1995	TRC	-	-	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3[2]	12/1995	TRC	-	-	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	137.18	136.79	-	4	-	-	-	-	-	-	111.52	115	-	-	-	-	-	21	Walker	Versar (2000)
W-4	12/1995	TRC	143.18	142.56	-	4	-	-	-	-	79	129	130	-	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-9	8/22/2006	Arcadis	140.37	139.84	8	2	0.01	35	73	111	75	110	110	120.5	66	28	64	29	29	19	Refinery	ARCADIS BBL (2006)
W-10	8/21/2006	Arcadis	141.39	140.71	8	2	0.01	35	73	111	75	110	110	130	67	29	65	30	30	10	Refinery	ARCADIS BBL (2006)
W-11	8/25/2006	Arcadis	141.96	142.10	8	2	0.01	35	73	111	75	110	110	119	68	30	66	31	31	22	Refinery	ARCADIS BBL (2006)
W-12	8/23/2006	Arcadis	142.93	145.15	8	2	0.01	35	75	114	75	114	114	120.5	69	30	69	30	30	24	Refinery	ARCADIS BBL (2006)
W-14A	1/22/2008-1/30/2008	Arcadis	115.23	114.71	9	2	0.02	45	67	112	67	112	112	200	48	3	48	3	3	-85	MSH	ARCADIS (2008)
W-14B			115 00*	114.78	9	2	0.02	10	157	167	157	167	167	200	-42	-52	-42	-52	-52	-85		
W-14C			115 00*	114.78	9	2	0.02	10	185	195	185	195	195	200	-70	-80	-70	-80	-80	-85		

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation					Completion Data														Location	Reference(s)[1]
			Elevation				Screen		Depth (ft)						Elevation (ft)							
									Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
Well ID	Date	By	Ground Surface (ft)	Top of Casing (ft-amsl)	Hole Diameter (in)	Casing Diameter (in)	Slot (in)	Length (ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing	Hole		
W-15A	11/27/2007-12/10/2007	Arcadis	127.91	127.59	10	2	0.02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)
W-15B			128 00*	127.61	10	2	0.02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72		
W-15C			128 00*	127.59	10	2	0.02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72		
W-16A	10/24/2007-10/30/2007	Arcadis	147.89	147.60	10	2	0.02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)
W-16B			148 00*	147.68	10	2	0.02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52		
W-16C			148 00*	147.67	10	2	0.02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52		
W-17A	1/31/2008-2/8/2008	Arcadis	141.60	141.38	9	2	0.02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)
W-17B			142 00*	141.37	9	2	0.02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59		
W-17C			142 00*	141.38	9	2	0.02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59		
MW-701	12/6/2010	Murex	136.87	139.48	12	4	0.02	50	77	130	80	130	130	130	59.87	6.87	56.87	6.87	6.87	6.87	Refinery	Murex (2011)
MW-702	12/15/2010	Murex	140.90	140.12	12	4	0.02	50	77	130	80	130	130	130	63.90	10 90	60.90	10.90	10.90	10.90	Refinery	Murex (2011)
MW-703	12/10/2010	Murex	134.73	137.23	12	4	0.02	50	77	130	80	130	130	130	57.73	4.73	54.73	4.73	4.73	4.73	Refinery	Murex (2011)
MW-704	12/14/2010	Murex	137.93	137.66	12	4	0.02	50	77	130	80	130	130	130	60.93	7.93	57.93	7.93	7.93	7.93	Refinery	Murex (2011)
MW-705	12/13/2010	Murex	139.16	141.94	12	4	0.02	50	77	130	80	130	130	130	62.16	9.16	59.16	9.16	9.16	9.16	Refinery	Murex (2011)
MW-706	12/9/2010	Murex	139.68	139.30	12	4	0.02	50	77	130	80	130	130	130	62.68	9.68	59.68	9.68	9.68	9.68	Refinery	Murex (2011)
MW-707	12/23/2010	Murex	128.86	128.43	12	4	0.02	50	77	130	80	130	130	130	51.86	-1.14	48.86	-1.14	-1.14	-1.14	Getty Drive	Murex (2011)
MW-708	1/12/2011	Murex	126.73	126.26	12	4	0.02	50	77	130	80	130	130	130	49.73	-3.27	46.73	-3.27	-3 27	-3.27	MSH	Murex (2011)
MW-709	1/26/2011	Murex	140.48	139.78	12	4	0.02	50	77	130	80	130	130	130	63.48	10.48	60.48	10.48	10.48	10.48	MSH	Murex (2011)
MW-710	1/13/2011	Murex	122.15	121.99	12	4	0.02	50	77	130	80	130	130	130	45.15	-7.85	42.15	-7.85	-7 85	-7.85	MSH	Murex (2011)
MW-711	1/17/2011	Murex	128.09	127.84	12	4	0.02	50	77	130	80	130	130	130	51.09	-1.91	48.09	-1.91	-1 91	-1.91	MSH	Murex (2011)
MW-712	1/24/2011	Murex	123.57	123.31	12	4	0.02	50	77	130	80	130	130	130	46.57	-6.43	43.57	-6.43	-6.43	-6.43	MSH	Murex (2011)
MW-713	1/19/2011	Murex	128.42	128.15	12	4	0.02	50	77	130	80	130	130	130	51.42	-1.58	48.42	-1.58	-1 58	-1.58	MSH	Murex (2011)
MW-714	1/20/2011	Murex	129.07	128.87	12	4	0.02	50	77	130	80	130	143	130	52.07	-0.93	49.07	-0.93	-13 93	-0.93	MSH	Murex (2011)
MW-715	1/27/2011	Murex	116.66	116.22	12	4	0.02	50	77	130	80	130	130	130	39.66	-13.34	36.66	-13.34	-13 34	-13.34	MSH	Murex (2011)
Former Groundwater Production Wells																						
					-	-	-	80	-	-	450	530	690	-	-	-	-	-	-	-	Refinery	IT (1986)
W-7	-	-	-	141.97	-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	-	Refinery	
W-8	-	-	-	141.11	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	-	Refinery	

NOTES:

[1]Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

[2]Well abandoned

ft	Feet
in	Inches
MSH	Metropolitan State Hospital Property
amsl	Above mean sea level
TOC	Top of casing
*	Value retrieved from Google Earth

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
2Q2013

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	1/18/2013	113.31	106.62	105.74	0.88	146.85	40.93
W-1	1/18/2013	129.58	109.21			144.81	35.60
W-3A	1/18/2013	111.73	DRY			136.79	NA
W-4	1/18/2013	129.50	110.43			142.56	32.13
W-7	1/18/2013	NM	93.10			141.97	48.87
W-8	1/18/2013	NM	77.20			141.11	63.91
W-9	1/18/2013	110.37	90.93			139.84	48.91
W-10	1/18/2013	110.18	97.98			140.71	42.73
W-11	1/18/2013	110.05	98.97			142.10	43.13
W-12	1/18/2013	116.10	103.66			145.15	41.49
W-14 A	1/18/2013	111.85	94.78			114.71	19.93
W-14 B	1/18/2013	167.00	93.69			114.78	21.09
W-14 C	1/18/2013	195.00	93.91			114.78	20.87
W-15 A	1/18/2013	125.40	113.59	111.08	2.51	127.59	16.01
W-15 B	1/18/2013	155.60	111.53			127.61	16.08
W-15 C	1/18/2013	197.34	111.85			127.59	15.74
W-16 A	1/18/2013	122.86	112.37			147.60	35.23
W-16 B	1/18/2013	160.25	117.92			147.68	29.76
W-16 C	1/18/2013	196.30	117.70			147.67	29.97
W-17 A	1/18/2013	108.07	97.25			141.38	44.13
W-17 B	1/18/2013	169.60	107.01			141.37	34.36
W-17 C	1/18/2013	200.00	107.08			141.38	34.30
MW-101	1/18/2013	90.72	DRY			138.00	NA
MW-103	1/18/2013	94.70	DRY			139.36	NA
MW-104A	1/18/2013	100.14	92.84			144.13	51.29
MW-105	1/18/2013	100.47	DRY			141.16	NA
MW-106A	1/18/2013	110.08	104.24			152.81	48.57
MW-107A	1/18/2013	109.29	104.03			147.02	42.99
MW-201	1/18/2013	101.60	DRY			135.65	NA
MW-202	1/18/2013	92.55	DRY			140.62	NA
MW-203	1/18/2013	102.30	DRY			143.71	NA
MW-204	1/18/2013	103.10	DRY			142.90	NA
MW-205	1/18/2013	98.27	DRY			140.09	NA
MW-501A	1/18/2013	93.27	DRY			130.89	NA
MW-502	1/18/2013	100.59	DRY			131.00	NA
MW-503B	1/18/2013	108.72	101.60			132.66	31.06
MW-504	1/18/2013	95.76	DRY			137.18	NA
MW-600A	1/18/2013	92.70	DRY			124.26	NA
MW-601A	1/18/2013	89.90	DRY			126.53	NA
MW-603	1/18/2013	97.60	DRY			120.95	NA
MW-604	1/18/2013	103.20	DRY			140.07	NA
MW-605	1/18/2013	93.98	DRY			116.82	NA
MW-606	1/18/2013	99.05	DRY			116.06	NA
MW-607	1/18/2013	107.05	DRY			128.28	NA
MW-701	1/18/2013	132.65	99.91			139.48	39.57
MW-702	1/18/2013	130.00	99.52			140.12	40.60
MW-703	1/18/2013	130.00	101.17			137.23	36.06
MW-704	1/18/2013	129.81	102.90			137.66	34.76
MW-705	1/18/2013	133.39	103.90			141.94	38.04
MW-706	1/18/2013	130.13	100.48			139.30	38.82
MW-707	1/18/2013	130.77	98.46			128.43	29.97
MW-708	1/18/2013	130.00	97.82	97.55	0.27	126.26	28.66
MW-709	1/18/2013	130.00	109.65			139.78	30.13

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
2Q2013

Well ID	Date	Total Depth	Depth to Groundwater	Depth To FPPH	FPPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-710	1/18/2013	130.00	96.25			121.99	25.74
MW-711	1/18/2013	130.00	103.00			127.84	24.84
MW-712	1/18/2013	130.00	99.95			123.31	23.36
MW-713	1/18/2013	130.00	105.59			128.15	22.56
MW-714	1/18/2013	132.50	106.18			128.87	22.69
MW-715	1/18/2013	134.00	97.98			116.22	18.24

NOTES:

ft	Feet
FPPH	Free-phase petroleum hydrocarbons
amsl	Above mean sea level
NM	Not measured, inaccessible
NA	Not available/applicable

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
EW-1	ug/L	11/1/1989	9800	730	16	1400A								<5		9.8			<5	<5	29
EW-1	ug/L	3/1/1990		1800	300	1800								<25		<50			<25	<25	<100
EW-1	ug/L	4/1/1990		1300	290	1600								<1		20	110		<10	<10	<20
EW-1	ug/L	8/21/1998	5000	230	<50	630			<50		150	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	ug/L	1/28/1999	7900	110	<50	540			<50		130	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	ug/L	7/19/1999	8000	110	<25	1000			<25		<250	<25	25	<25		<25	<25		<25	<13	<13
EW-1	ug/L	1/13/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	ug/L	7/31/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	ug/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	ug/L	7/26/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	ug/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	ug/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	ug/L	11/10/2006	4800	65	<4	68	16	<4	<10	<100	42	6.9	<4	<4		8.4	6.3		<4	<4	<10
EW-1	ug/L	2/9/2007	4100	41	<2	39	9.4	<2	<5	<50	26	5.1	2.3	<2		7.8	6.5		<2	<2	<5
EW-1	ug/L	5/10/2007	3300	19	1.5	15	3.7	<4	<10	17	10	2.6	1.4	<4		6.9	6.9		<4	<4	<10
EW-1	ug/L	8/10/2007	3200	36	2.3	14	4.7	0.64	<5	15	20	3.2	1.4	<2		9.9	11		0.35	<2	<5
EW-1	ug/L	2/8/2008	4100	73	1.9	4.9	<4	<4	<10	31	5.3	0.48	<4	<4		14	9.8		0.54	<4	2.6
EW-1	UG/L	2/3/2011	4500	20	1.5	27	13	<0.50	<1.0	<10	42	<1.0	<1.0	<1.0	1.3	5.9	4.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	2/3/2011	4200	20	1.4	27	13	<0.50	<1.0	<10	22	<1.0	<1.0	<1.0	1.1	5.1	3.5	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	4/13/2011	4700	29	3.2	51	28	0.74	<1.0	<10	67	1.9	<1.0	<1.0	3.7	8.9	8.6	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	11/13/2012	2900	<0.50	<0.50	5.8	1.4	<0.50	<1.0	<10	120	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	1/29/2013	4500	<0.50	3.0	6.1	18	9.3	<1.0	<10	110	20	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	4/10/2013	1400	<0.50	<0.50	2.1	<1.0	<0.50	<1.0	<10	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-104A	ug/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.6		<1	1.2	<0.5
MW-104A	ug/L	1/13/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	6.7		<1	<0.5	5.7
MW-104A	ug/L	8/2/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	ug/L	2/7/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-104A	ug/L	7/25/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	<0.5	<0.5
MW-104A	ug/L	5/7/2002	100	<0.5	<1	<1			<1	31000	<10	<1	<1	<1		<1	4.3		<1	<0.5	<0.5
MW-104A	ug/L	9/24/2002	<100	<0.5	<1	<1			<1	20000	<10	<1	<1	<1		1.4	5.4		<1	<0.5	<0.5
MW-104A	ug/L	6/30/2004	<200	<5	<5	<5			<5	30J		<5	<5	<5		2J	8.1		<5	<5	<5
MW-104A	ug/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	83	<10	<1	<1	<1		<1	3.4		<1	<0.5	<0.5
MW-104A	ug/L	2/15/2006	<50	<1	<5	<5	<5	<5	<1	30	<5	<5	<5	<5		<5	2		<5	<5	<5
MW-104A	ug/L	2/7/2007	540	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-104A	ug/L	5/8/2007	33	<2	0.37	<2	<2	<2	<5	340	<5	<2	<2	<2		<2	1.8		<2	<2	<5
MW-104A	ug/L	8/8/2007	<50	<2	<2	<2	<2	<2	<5	150	<5	<2	<2	<2		0.51	2.9		<2	<2	<5
MW-104A	ug/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	<0.23	<0.26	<0.32		0.71	4		<0.27	<0.28	<0.3
MW-104A	ug/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	71	<5	<2	<2	<2		0.91	5.2		<2	<2	<5
MW-104A	ug/L	1/16/2009	46	<2	<2	<2	1	<2	<5	23	<5	0.55	<2	<2		0.57	4.6		<2	<2	<5
MW-104A	ug/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	38	<5	<2	<2	<2		0.62	4.5		<2	<2	<5
MW-104A	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	<1.0
MW-104A	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.5		<1.0	<0.50	<1.0
MW-104A	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	6.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	5/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/27/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/6/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	1/28/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	4/5/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	4.4	<1.0	<1.0	<0.50	<1.0
MW-106A	ug/L	8/2/2006	310	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		21	13		<2	<2	10
MW-106A	ug/L	11/9/2006	82	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	14		<2	<2	7
MW-106A	ug/L	2/8/2007	270	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		20	15		<2	<2	13
MW-106A	ug/L	5/10/2007	210	1.5	<2	0.28	<2	<2	<5	20	<5	<2	<2	<2		12	9.9		0.6	<2	7.9
MW-106A	ug/L	8/9/2007	270	1.6	<2	0.6	<2	<2	<5	19	0.69	<2	<2	<2		14	12		0.83	<2	12
MW-106A	ug/L	11/7/2007	240	1.4	<0.36	0.84	<0.6	<0.3	<0.32	20	1.6	<0.23	<0.26	<0.32		9.5	11		0.7	<0.28	9.9
MW-106A	ug/L	2/5/2008	220	1.6	<2	0.42	<2	<2	<5	16	1.8	<2	<2	<2		7.8	10		0.73	<2	10
MW-106A	ug/L	1/19/2009	220	0.46	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		11	13		0.99	<2	6.3
MW-106A	ug/L	4/23/2009	290	1.9	<2	3.7	<2	<2	<5	18	0.93	<2	<2	<2		6.3	5.5		0.82	<2	10
MW-106A	UG/L	3/5/2010	590	8.4	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	3.5		<1.0	<0.50	<1.0
MW-106A	UG/L	5/13/2010	460	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	<1.0		<1.0	<0.50	21
MW-106A	UG/L	8/6/2010	450	12	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.5	1.0		1.2	<0.50	25
MW-106A	UG/L	11/4/2010	630	0.64	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	8.8
MW-106A	UG/L	2/3/2011	570	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	4/19/2011	480	0.63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	6.9
MW-106A	UG/L	8/25/2011	540	0.51	<0.50	<0.50	<1.0	<0.50	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
MW-106A	UG/L	11/14/2011	440	0.87	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	2/3/2012	440	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	11
MW-106A	UG/L	5/8/2012	630	7.1	<0.50	0.87	1.5	<0.50	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	23
MW-106A	UG/L	8/24/2012	470	4.8	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	11
MW-106A	UG/L	11/6/2012	610	6.9	<0.50	0.83	<1.0	<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	78
MW-106A	UG/L	1/28/2013	250	5.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	4/4/2013	480	6.9	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	14
MW-107A	ug/L	8/2/2006	770	3.7	<2	<2	3.4	<2	<5	<50	<5	<2	<2	<2		2.4	3.9		<2	<2	<5
MW-107A	ug/L	11/9/2006	780	24	<2	4.7	9.1	<2	<5	<50	<5	<2	<2	<2		5.3	6.2		<2	<2	<5
MW-107A	ug/L	2/8/2007	500	80	<2	21	25	<2	<5	<50	7.4	<2	<2	<2		7.4	9.6		<2	<2	<5
MW-107A	ug/L	5/10/2007	670	42	1	14	17	<2	<5	21	6	<2	0.29	<2		6	6.6		<2	<2	2
MW-107A	ug/L	8/9/2007	1000	61	2	15	41	<2	<5	18	8.5	<2	0.33	<2		9.5	8.8		0.31	<2	2.3
MW-107A	ug/L	11/7/2007	1500	44	4.2	16	26	<0.3	<0.32	35	11	<0.23	0.49	<0.32		9.4	6.4		0.3	<0.28	4.4
MW-107A	ug/L	2/5/2008	2800	19	3	3	12	<2	<5	37	3.9	<2	0.38	<2		9.2	5.6		0.29	<2	5
MW-107A	ug/L	1/19/2009	1100	13	1.9	1.5	9.9	0.43	<5	66	1.1	<2	0.29	<2		7.3	6.8		<2	<2	2
MW-107A	ug/L	1/19/2009	1200	12	1.9	1.6	9.6	0.38	<5	62	1.3	<2	0.27	<2		7.5	7.2		<2	<2	1.8
MW-107A	ug/L	4/23/2009	1300	74	1.1	13	94	0.47	<5	67	6.6	3.2	2.8	<2		10	8.5		<2	<2	1.3
MW-107A	ug/L	4/23/2009	2400	79	1.2	13	91	0.47	<5	66	7.5	3	2.7	<2		11	9.4		<2	<2	1.3
MW-107A	UG/L	3/5/2010	1100	17	0.68	1.6		<0.50	<1.0	<10	6.0	<1.0	<1.0	<1.0		7.6	6.8		<1.0	<0.50	<1.0
MW-107A	UG/L	3/5/2010	1300	16	0.66	1.7		<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0		7.4	6.4		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1500	7.6	11	4.1		2.0	4.7	<10	3.3	2.0	<1.0	<1.0		4.7	4.8		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1100	8.8	11	4.2		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.9	5.9		<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-107A	UG/L	8/6/2010	1300	120	150	39		1.3	<1.0	<10	24	1.9	<1.0	<1.0		7.5	10		<1.0	<0.50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	160	39		1.3	<1.0	<10	29	1.9	<1.0	<1.0		7.0	9.5		<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1400	39	11	16	29	<0.50	<1.0	<10	4.1	<1.0	<1.0	<1.0	7.5	5.8	7.7	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1600	36	10	14	26	<0.50	<1.0	<10	4.2	<1.0	<1.0	<1.0	7.1	5.1	6.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	2/3/2011	740	4.1	2.2	3.2	14	<0.50	<1.0	<10	1.2	<1.0	<1.0	<1.0	3.3	2.4	3.2	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/19/2011	1200	2.4	0.90	1.2	4.7	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	3.6	5.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/19/2011	1200	2.6	0.99	1.2	5.2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	4.2	5.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/25/2011	590	0.95	<0.50	<0.50	1.8	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.4	1.7	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/25/2011	480	0.84	<0.50	<0.50	1.4	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.9	1.4	3.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/14/2011	550	1.0	<0.50	<0.50	1.6	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	4.8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	1/31/2012	500	0.97	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.6	2.6	7.8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	5/8/2012	710	0.78	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0	1.7	1.6	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/24/2012	720	1.0	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	2.5	1.8	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/6/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	1/28/2013	450	<0.50	<0.50	1.2	8.3	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/4/2013	180	<0.50	2.1	1.8	9.6	5.3	<1.0	<10	71	15	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	ug/L	2/9/1999	10000	970	<50	420					<50	<50	<50	<50		150	110		<50	<50	<100
MW-503B	ug/L	7/19/1999	7800	630	<20	540			<20		<200	<20	<20	<20		250	180		<20	<10	<10
MW-503B	ug/L	1/14/2000	14000	1000	32	870			<20		<200	<20	<20	<20		200	210		<20	<10	<10
MW-503B	ug/L	8/4/2000	5600	610	19	500			<10		23	<10	<10	<10		160	140		<10	<5	<5
MW-503B	ug/L	2/6/2001	5800	250	<20	320			<20		<200	<20	<20	<20		150	84		<20	<10	<10
MW-503B	ug/L	7/25/2001	5700	280	<50	230			<50		<500	<50	<50	<50		57	<50		<50	<25	<25
MW-503B	ug/L	5/9/2002	4500	81	3.5	77			<2	<20000	26	2.5	2.2	<2		23	23		<2	<1	7.7
MW-503B	ug/L	9/26/2002	3300	36	9.6	140			<1	<10000	48	2.5	3.7	<1		16	18		<1	<0.5	10
MW-503B	ug/L	7/1/2004	5900	160	37	89	42	<0.5	<5	<100	42	3J	4J	<5			3J		<5	<5	<5
MW-503B	ug/L	10/5/2005	5400	1100	<20	73	38	<20	<20	<200	<200	<20	<20	<20		<20	<20		<20	<10	<10
MW-503B	ug/L	2/14/2006	5450	331	<50	12	<250	<250	<10	<100	<50	<50	<50	<50		<50	<50		<50	<50	<50
MW-503B	ug/L	8/4/2006	4700	31	<2	3.5	2.1	2	7.6	<50	<5	<2	<2	<2		3.1	7.2		<2	<2	5.8
MW-503B	ug/L	11/10/2006	3500	26	<4	4.7	<4	<4	<10	<100	<10	<4	<4	<4		<4	4.9		<4	<4	<10
MW-503B	ug/L	2/9/2007	1600	59	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		2.2	11		<2	<2	5.4
MW-503B	ug/L	5/11/2007	1800	60	0.58	2.1	1	<2	1.3	<50	1.5	<2	0.61	<2		2.6	17		0.63	0.47	7.4
MW-503B	ug/L	8/10/2007	1800	80	0.62	1.7	1.1	<2	<5	<50	<5	0.23	0.44	<2		2	19		0.48	0.64	7.6
MW-503B	ug/L	11/8/2007	2400	270	3.6	3.7	4.7	<1.2	2.8	<20	11	<0.92	<1	<1.3		<1.1	15		<1.1	<1.1	7
MW-503B	ug/L	2/11/2008	2700	220	3.1	3.4	3.5	<8	3.4	<200	18	<8	<8	<8		1.4	21		<8	<8	6.3
MW-503B	ug/L	1/21/2009	6200	410	14	39	28	<10	<25	<250	36	<10	<10	<10		<10	<10		<10	<10	25
MW-503B	ug/L	4/27/2009	4000	210	11	24	18	2.9	2.2	<50	29	0.53	2.9	<2		<2	4.8		<2	1.2	25
MW-503B	UG/L	3/8/2010	2800	40	1.4	1.7		<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	6.7
MW-503B	UG/L	5/17/2010	2900	91	1.0	1.2		<0.50	5.1	<10	1.4	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	1.6	5.7
MW-503B	UG/L	8/9/2010	3700	270	5.3	2.4		0.65	<1.0	<10	3.4	<1.0	1.3	<1.0		<1.0	<1.0		<1.0	3.8	5.4
MW-503B	UG/L	11/8/2010	8000	690	320	180	580	170	8.2	<10	97	370	140	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	5 9
MW-503B	UG/L	11/8/2010	12000	940	440	250	800	230	9.6	<10	250	450	170	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	6.1
MW-503B	UG/L	2/4/2011	57000	1400	7700	2900	15000	5900	<1.0	<10	5200	15000	4400	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	4.8	<1.0
MW-503B	UG/L	4/15/2011	41000	3400	3200	1800	7200	2600	9.1	63	370	2100	640	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	8.0
MW-503B	UG/L	4/15/2011	39000	2200	2500	1400	5200	2000	9.0	64	260	1800	620	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	6 9
MW-503B	UG/L	8/29/2011	13000	590	270	440	1300	670	4.4	<10	200	470	150	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<0.50	1.1
MW-503B	UG/L	11/16/2011	6700	170	160	220	550	280	<1.0	<10	170	290	96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	1/31/2012	5400	250	120	270	580	290	<1.0	<10	150	300	57	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	2.0	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-503B	UG/L	1/31/2012	5200	280	120	300	650	330	<1.0	<10	170	340	55	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	2.1	<1.0
MW-503B	UG/L	5/8/2012	11000	920	170	820	1800	250	<1.0	<10	150	770	100	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	0.56	2.5
MW-503B	UG/L	8/30/2012	2000	130	19	100	190	39	3.9	<10	98	120	34	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	11/5/2012	680	120	2.1	5.4	19	4.4	1.3	12	23	24	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	1/30/2013	1100	52	18	41	130	55	<1.0	<10	140	120	35	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	4/8/2013	720	64	4.3	17	47	12	2.8	20	76	39	8.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	4/8/2013	600	62	4.1	16	44	11	2.7	19	75	36	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-701	UG/L	2/4/2011	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	4.3	1.6	9.5	1.7	<1.0	<0.50	<1.0
MW-701	UG/L	4/11/2011	230	1.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	14	2.3	14	3.8	1.0	<0.50	6.0
MW-701	UG/L	8/30/2011	190	2.5	<0.50	<0.50	<1.0	<0.50	<1.0	19	<1.0	<1.0	<1.0	<1.0	14	2.3	9.0	3.4	<1.0	<0.50	5.2
MW-701	UG/L	8/30/2011	290	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	11	2.0	7.7	2.8	<1.0	<0.50	4.0
MW-701	UG/L	11/16/2011	310	2.5	0.62	1.4	3.5	1.8	<1.0	<10	7.6	3.4	<1.0	1.3	13	<1.0	9.2	4.6	<1.0	<0.50	<1.0
MW-701	UG/L	2/1/2012	300	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	8.9	3.8	14	4.3	<1.0	<0.50	<1.0
MW-701	UG/L	5/11/2012	260	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	15	3.8	14	<1.0	<1.0	<0.50	5.5
MW-701	UG/L	8/31/2012	350	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.7	16	2.9	18	5.3	<1.0	<0.50	3.7
MW-701	UG/L	8/31/2012	340	0.94	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.5	15	2.8	17	5.0	<1.0	<0.50	3.5
MW-701	UG/L	11/13/2012	300	0.95	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	3.1	18	5.1	<1.0	<0.50	31
MW-701	UG/L	2/4/2013	93	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	22	4.0	<1.0	<0.50	4.0
MW-701	UG/L	4/10/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	7.3	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	2/4/2011	2300	91	0.74	0.92	<1.0	<0.50	<1.0	<10	5.2	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	4/12/2011	910	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	32	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	1.3	<0.50	1.1
MW-702	UG/L	8/30/2011	260	15	<0.50	<0.50	<1.0	<0.50	<1.0	59	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	1.1
MW-702	UG/L	11/16/2011	1400	99	0.59	0.51	<1.0	<0.50	<1.0	<10	2.9	<1.0	1.0	<1.0	<1.0	<1.0	2.5	<1.0	1.2	<0.50	<1.0
MW-702	UG/L	2/9/2012	1400	480	1.3	0.65	<1.0	<0.50	<1.0	<10	3.4	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	2/9/2012	1500	470	1.3	0.71	<1.0	<0.50	<1.0	<10	3.3	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	5/11/2012	6000	2700	2.7	1.0	1.4	0.85	<1.0	<10	4.2	<1.0	4.4	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	8/31/2012	1200	88	5.9	1.8	<1.0	0.94	<1.0	<10	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	8/31/2012	4300	72	6.2	1.9	<1.0	0.99	<1.0	<10	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	11/13/2012	65	17	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	2/4/2013	1100	16	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	39	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	4/10/2013	2300	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	1.5	<0.50	<1.0
MW-703	UG/L	2/4/2011	1300	33	1.3	5.2	2.8	<0.50	<1.0	<10	1.6	1.8	<1.0	<1.0	2.0	<1.0	18	3.6	<1.0	<0.50	<1.0
MW-703	UG/L	4/12/2011	1100	76	1.4	7.8	4.8	<0.50	1.4	<10	<1.0	2.7	<1.0	<1.0	2.6	<1.0	10	1.7	<1.0	<0.50	<1.0
MW-703	UG/L	8/30/2011	2100	170	3.4	20	8.5	<0.50	3.3	50	<1.0	2.4	1.1	<1.0	1.1	<1.0	8.7	<1.0	<1.0	<0.50	1.3
MW-703	UG/L	11/17/2011	1700	170	3.8	25	5.6	<0.50	<1.0	<10	<1.0	2.5	1.2	<1.0	<1.0	<1.0	8.8	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	11/17/2011	1400	150	3.4	21	4.7	<0.50	<1.0	<10	<1.0	2.2	1.0	<1.0	<1.0	<1.0	9.2	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	2/14/2012	470	48	0.72	1.4	1.9	<0.50	<1.0	<10	1.1	<1.0	<1.0	<1.0	2.6	1.0	28	3.0	<1.0	<0.50	2.5
MW-703	UG/L	5/11/2012	500	10	<0.50	0.55	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<0.50	1.1
MW-703	UG/L	8/31/2012	490	39	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	1.5	<1.0	<0.50	1.2
MW-703	UG/L	8/31/2012	430	40	<0.50	0.52	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	1.5	<1.0	<0.50	1.1
MW-703	UG/L	11/14/2012	280	4.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	2.5	<1.0	<0.50	9.5
MW-703	UG/L	2/4/2013	180	13	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	14	1.7	<1.0	<0.50	<1.0
MW-703	UG/L	4/10/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.7	<1.0	<1.0	<0.50	<1.0
MW-704	UG/L	2/9/2011	27000	1800	2000	610	3600	680	210	<10	120	1200	520	<1.0	2.3	<1.0	2.5	<1.0	1.2	38	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-704	UG/L	2/9/2011	26000	1900	2400	620	3700	720	430	<10	96	1300	550	<1.0	<1.0	<1.0	2.5	<1.0	1.3	40	<1.0
MW-704	UG/L	4/13/2011	5400	170	110	200	190	68	73	<10	38	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	6.0	7.0	2.0
MW-704	UG/L	8/31/2011	11000	570	600	300	540	180	180	160	58	410	170	<1.0	<1.0	<1.0	3.8	<1.0	3.5	25	1.5
MW-704	UG/L	11/17/2011	10000	550	430	420	520	180	190	<10	37	490	210	<1.0	<1.0	<1.0	3.4	<1.0	3.9	18	<1.0
MW-704	UG/L	2/14/2012	7700	310	89	390	530	95	100	73	50	500	210	<1.0	<1.0	<1.0	5.3	<1.0	5.7	5.9	3.1
MW-704	UG/L	2/14/2012	7800	320	89	410	560	96	130	80	53	510	220	<1.0	<1.0	<1.0	4.5	<1.0	4.9	6.2	2 3
MW-704	UG/L	5/14/2012	11000	450	250	360	520	99	130	45	61	410	150	<1.0	<1.0	<1.0	2.8	<1.0	3.3	12	1 2
MW-704	UG/L	5/14/2012	9000	460	260	360	530	98	140	56	77	420	150	<1.0	<1.0	<1.0	3.0	<1.0	3.4	12	1 2
MW-704	UG/L	9/4/2012	7800	580	30	550	760	33	44	24	3.6	670	260	<1.0	<1.0	<1.0	2.4	<1.0	2.6	3.4	<1.0
MW-704	UG/L	11/14/2012	8700	2200	150	1200	1700	170	610	60	150	1000	430	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	27	2 2
MW-704	UG/L	11/14/2012	14000	1800	120	1200	1500	150	260	43	100	1100	440	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18	2.4
MW-704	UG/L	2/5/2013	1500	390	440	73	340	110	61	<10	44	91	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	37	<1.0
MW-704	UG/L	4/15/2013	3900	420	29	200	300	10	97	<10	57	530	170	<1.0	<1.0	<1.0	3.0	<1.0	3.2	6.1	1.1
MW-705	UG/L	2/4/2011	3100	450	3.5	5.1	6.4	0.54	90	94	6.7	<1.0	1.3	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	4/12/2011	930	55	0.87	1.7	1.6	<0.50	22	31	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	8/31/2011	1300	79	1.4	3.3	2.3	<0.50	13	66	<1.0	1.9	1.3	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	0.56	1.2
MW-705	UG/L	11/17/2011	1100	56	7.6	24	29	6.3	73	<10	38	31	9.8	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	2/14/2012	410	52	1.2	7.0	7.8	0.66	250	240	3.3	8.1	3.8	<1.0	<1.0	<1.0	8.9	1.3	<1.0	<0.50	1.8
MW-705	UG/L	2/14/2012	440	49	0.86	5.6	5.7	<0.50	250	230	<1.0	5.0	2.6	<1.0	<1.0	<1.0	8.3	1.3	<1.0	<0.50	1.5
MW-705	UG/L	5/14/2012	600	27	1.2	2.8	5.6	0.76	64	49	12	5.9	2.0	<1.0	<1.0	<1.0	7.4	1.4	<1.0	<0.50	<1.0
MW-705	UG/L	5/14/2012	610	36	<0.50	2.1	5.6	<0.50	60	33	<1.0	1.1	<1.0	<1.0	1.0	<1.0	8.3	1.8	<1.0	<0.50	<1.0
MW-705	UG/L	9/4/2012	100	0.79	<0.50	<0.50	<1.0	<0.50	12	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	2.0	<1.0	0.51	<1.0
MW-705	UG/L	11/14/2012	100	5.1	0.56	7.9	9.9	0.94	2.1	47	22	9.7	3.2	<1.0	<1.0	<1.0	9.2	2.3	<1.0	<0.50	3.6
MW-705	UG/L	11/14/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	1.7	24	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	11	2.2	<1.0	0.56	<1.0
MW-705	UG/L	2/5/2013	<50	<0.50	0.74	<0.50	1.9	0.96	<1.0	37	3.2	1.6	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	4/10/2013	140	0.97	<0.50	<0.50	<1.0	<0.50	10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.8	1.5	<1.0	<0.50	2.0
MW-706	UG/L	2/4/2011	390	4.9	0.57	<0.50	<1.0	<0.50	4.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	4/11/2011	540	9.0	<0.50	<0.50	<1.0	<0.50	5.9	89	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	<0.50	2.6
MW-706	UG/L	8/31/2011	1100	25	0.86	0.65	1.9	<0.50	5.4	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	1.9
MW-706	UG/L	11/18/2011	490	9.5	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	2/14/2012	350	16	<0.50	<0.50	<1.0	<0.50	4.4	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	<0.50	2.5
MW-706	UG/L	5/14/2012	1300	22	1.0	0.95	2.6	0.50	6.8	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<0.50	1.5
MW-706	UG/L	5/14/2012	1500	23	1.0	1.0	2.6	0.53	7.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<0.50	1.6
MW-706	UG/L	9/4/2012	410	12	<0.50	<0.50	1.2	<0.50	5.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.8	<1.0	<1.0	<0.50	1.2
MW-706	UG/L	11/15/2012	<50	2.6	<0.50	3.0	4.1	<0.50	6.6	110	6.1	3.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	11/15/2012	<50	3.1	<0.50	0.86	1.1	<0.50	5.6	110	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	2/5/2013	<50	<0.50	0.80	0.53	2.4	1.2	<1.0	31	4.6	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	4/15/2013	260	5.9	<0.50	<0.50	<1.0	<0.50	2.8	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<0.50	1.0
MW-706	UG/L	4/15/2013	250	5.1	<0.50	<0.50	<1.0	<0.50	3.2	61	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	<1.0	<0.50	1.5
MW-707	UG/L	2/4/2011	2000	520	120	7.6	120	150	15	<10	<1.0	10	7.8	4.1	8.7	<1.0	7.0	6.9	<1.0	2.7	<1.0
MW-707	UG/L	4/8/2011	7000	1000	560	180	670	310	15	<10	26	74	27	<1.0	3.2	<1.0	8.7	1.6	<1.0	4.0	<1.0
MW-707	UG/L	9/1/2011	2200	1200	95	92	1500	170	17	46	87	160	35	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<0.50	4 6
MW-707	UG/L	11/18/2011	8300	930	120	55	1900	120	<1.0	<10	150	250	53	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	2/1/2012	10000	1200	150	100	1100	96	<1.0	<10	110	220	69	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	5/15/2012	9700	1000	200	82	870	74	15	12	120	190	42	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	2 3

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-707	UG/L	9/4/2012	6700	1400	41	26	220	29	9.7	<10	5.2	55	26	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	1.3	1.5
MW-707	UG/L	11/15/2012	310	180	11	6.6	29	9.5	2.3	<10	21	11	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	2/5/2013	92	49	5.4	2.5	19	5.3	1.4	<10	27	5.4	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	4/8/2013	240	92	5.6	5.2	27	5.0	2.1	<10	29	6.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	2/4/2011	530000	1400	420	3000	8100	13	330	<10	370	2200	92	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	9/1/2011	38000	1900	230	1200	2200	54	2300	2500	150	440	430	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	11/18/2011	18000	1100	62	630	860	30	1000	<100	180	940	390	<10	<10	<10	<10	<10	<10	<5.0	<10
MW-708	UG/L	2/10/2012	18000	1700	74	770	1000	38	830	<10	170	1100	410	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	5/15/2012	57000	870	39	550	750	18	450	120	110	430	380	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.86	<1.0
MW-708	UG/L	9/5/2012	17000	1400	75	710	1000	32	390	<10	160	1400	520	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	11/16/2012	1000	73	0.57	5.4	9.5	0.58	3.8	55	4.0	37	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	2/11/2013	3200	46	2.8	19	39	4.0	52	<10	79	200	62	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	4/11/2013	25000	1100	54	510	920	27	790	350	290	1700	670	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	4/11/2013	240000	990	54	430	890	24	670	260	680	2000	780	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/4/2011	500	16	1.0	<0.50	4.8	1.1	2.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	4/6/2011	580	26	0.86	0.89	4.1	0.72	4.6	<10	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	9/1/2011	9900	1.1	<0.50	0.91	4.6	1.2	7.6	60	<1.0	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	11/21/2011	1100	<0.50	<0.50	0.77	2.1	0.75	6.4	<10	4.6	1.4	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/10/2012	760	<0.50	<0.50	<0.50	<1.0	<0.50	4.4	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	5/16/2012	920	<0.50	<0.50	<0.50	<1.0	<0.50	4.7	20	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	9/5/2012	670	<0.50	0.86	<0.50	1.8	0.67	2.2	23	12	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	11/16/2012	650	1.7	<0.50	<0.50	<1.0	<0.50	2.4	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/11/2013	310	<0.50	<0.50	<0.50	<1.0	<0.50	3.8	86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	4/11/2013	850	<0.50	<0.50	<0.50	<1.0	<0.50	2.1	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-710	UG/L	2/8/2011	93	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	55	93	2.9	14	41	3.1	0.81	1.3
MW-710	UG/L	2/8/2011	110	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	54	89	2.9	14	41	3.1	<0.50	1.2
MW-710	UG/L	4/7/2011	<50	0.81	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	72	4.1	19	56	4.9	1.5	2.0
MW-710	UG/L	4/7/2011	100	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	82	92	4.0	18	54	4.7	1.5	1.9
MW-710	UG/L	9/2/2011	380	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	97	2.0	17	50	4.3	1.2	1.1
MW-710	UG/L	9/2/2011	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	58	<1.0	<1.0	<1.0	76	100	2.2	18	54	4.6	1.2	1.3
MW-710	UG/L	11/21/2011	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	51	71	1.5	13	35	3.6	<0.50	<1.0
MW-710	UG/L	11/21/2011	79	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	52	71	1.5	13	34	3.4	<0.50	<1.0
MW-710	UG/L	2/1/2012	170	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	66	110	2.1	23	71	6.0	<0.50	<1.0
MW-710	UG/L	5/16/2012	130	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	53	77	1.2	19	48	4.4	<0.50	<1.0
MW-710	UG/L	9/5/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.8	1.0	<1.0	77	91	<1.0	16	56	3.9	<0.50	1.2
MW-710	UG/L	11/16/2012	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	81	130	2.0	19	86	4.8	<0.50	8.2
MW-710	UG/L	2/11/2013	55	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	75	100	<1.0	18	52	4.0	<0.50	<1.0
MW-710	UG/L	2/11/2013	64	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	86	110	<1.0	19	59	4.4	<0.50	1.1
MW-710	UG/L	4/12/2013	130	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	75	89	1.7	16	41	3.6	<0.50	<1.0
MW-711	UG/L	2/8/2011	11000	520	440	120	380	250	11	<10	260	180	110	<1.0	8.4	<1.0	4.5	<1.0	<1.0	<0.50	7.5
MW-711	UG/L	4/6/2011	7100	<0.50	<0.50	65	160	50	20	<10	420	52	36	<1.0	1.1	<1.0	2.6	<1.0	<1.0	<0.50	8.7
MW-711	UG/L	9/2/2011	44000	1600	1800	650	3000	1100	25	<10	620	1800	550	<1.0	<1.0	1 3	3.8	<1.0	<1.0	<0.50	17
MW-711	UG/L	11/21/2011	14000	370	290	530	1800	790	<1.0	<10	880	480	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	2/10/2012	23000	1900	2100	440	1800	770	14	<10	360	480	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-711	UG/L	5/16/2012	25000	2900	3200	730	3000	1200	14	<10	370	<1.0	300	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	5 9
MW-711	UG/L	9/5/2012	28000	2100	2000	640	2000	1100	5.9	<10	370	720	120	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	5 8
MW-711	UG/L	11/16/2012	35000	6200	7000	1400	4500	2300	4.4	41	350	430	210	<1.0	<1.0	5 9	19	<1.0	1.2	<0.50	120
MW-711	UG/L	2/11/2013	410	75	35	9.8	44	20	<1.0	<10	220	27	7.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	2/11/2013	410	71	33	9.6	43	20	<1.0	<10	240	24	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	4/12/2013	25000	2000	1500	450	2000	720	<1.0	<10	440	640	200	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	5 9
MW-712	UG/L	2/9/2011	14000	1200	520	380	1800	390	23	<10	98	460	170	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	4/7/2011	94	860	140	270	1100	170	32	<10	140	580	220	<1.0	1.8	<1.0	3.4	<1.0	<1.0	0.64	2 2
MW-712	UG/L	9/2/2011	6300	440	77	100	350	72	19	<10	43	180	76	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	0.71	<1.0
MW-712	UG/L	11/21/2011	8000	600	60	90	310	60	<1.0	<10	65	140	72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	2/13/2012	8300	850	57	62	180	46	21	94	24	86	44	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<0.50	1.7
MW-712	UG/L	5/17/2012	8400	650	130	180	740	150	86	22	44	240	77	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	1.1
MW-712	UG/L	9/6/2012	10000	1100	27	47	110	40	110	97	49	88	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	11/19/2012	670	55	5.8	8.1	37	8.6	5.9	<10	11	17	4.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	2/12/2013	3200	690	75	100	460	76	130	<10	37	190	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	4/12/2013	5800	540	56	93	390	68	180	<10	36	130	46	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	2/9/2011	280	29	<0.50	<0.50	1.7	<0.50	3.5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	4/8/2011	1000	150	<0.50	0.91	1.6	<0.50	75	120	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	9/2/2011	310	73	3.0	1.7	7.8	3.6	71	100	11	7.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/2011	3300	900	1.6	3.4	12	2.6	230	220	2.2	2.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/2011	3500	800	1.9	3.8	14	2.9	230	230	2.7	2.4	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	2/13/2012	5500	1900	2.2	4.6	9.8	2.5	390	160	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	5/17/2012	5100	2300	2.3	5.3	6.0	1.3	400	110	3.6	1.1	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	9/6/2012	9600	1600	3.5	6.4	6.8	1.5	410	75	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/19/2012	750	350	0.79	1.5	2.1	<0.50	190	73	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	2/12/2013	5500	5300	7.0	16	33	1.0	720	<10	17	1.0	9.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	4/11/2013	8200	4900	8.2	13	37	1.9	760	310	6.8	1.5	13	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	4/11/2013	8300	5000	8.4	13	38	2.0	800	320	6.7	1.5	14	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	1 2
MW-714	UG/L	2/14/2011	370	1.3	<0.50	<0.50	<1.0	<0.50	10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	4/7/2011	16000	16	4.0	2.1	11	1.9	16	<10	23	4.7	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	9/2/2011	500	3.8	<0.50	<0.50	1.1	<0.50	9.7	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/2011	430	9.0	<0.50	<0.50	<1.0	<0.50	8.4	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/2011	490	4.7	<0.50	<0.50	<1.0	<0.50	7.9	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/13/2012	760	3.9	<0.50	<0.50	<1.0	<0.50	7.1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/13/2012	730	5.0	0.72	<0.50	1.1	<0.50	8.4	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	5/18/2012	390	2.4	<0.50	<0.50	<1.0	<0.50	7.1	<10	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	9/6/2012	500	1.6	<0.50	<0.50	<1.0	<0.50	2.3	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/19/2012	<50	1.2	<0.50	<0.50	<1.0	<0.50	2.4	20	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/12/2013	86	1.3	<0.50	<0.50	<1.0	<0.50	7.6	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	4/11/2013	170	1.3	<0.50	<0.50	<1.0	<0.50	7.2	52	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	2/14/2011	2000	480	12	1.7	24	7.4	2.8	<10	<1.0	2.6	4.2	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	4/8/2011	1500	310	5.6	1.0	3.6	1.6	8.8	<10	3.8	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	9/2/2011	5500	800	2.5	4.0	12	5.3	8.2	22	5.0	4.5	4.8	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.56	1.9
MW-715	UG/L	9/2/2011	1100	420	1.4	2.2	6.1	2.5	7.9	20	3.8	2.5	4.6	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.53	1.2

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-715	UG/L	11/22/2011	1500	450	1.5	6.0	<1.0	<0.50	8.5	11	3.5	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	2/1/2012	860	270	2.6	1.7	5.6	1.1	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	5/18/2012	13000	2100	19	1100	1900	350	4.3	<10	230	930	270	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	2.1
MW-715	UG/L	9/6/2012	610	11	0.56	62	<1.0	<0.50	1.2	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	11/19/2012	<50	0.52	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	2/12/2013	<50	0.71	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	4/12/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	ug/L	11/1/1989		390	3.9	2.1								<0.5A		<0.5A			3.5A	<0.5A	21
W-1	ug/L	3/1/1990		140	<5	<5								<5		<10			<5	<5	<20
W-1	ug/L	4/1/1990		200	12	12								<5		<5	<25		1.6	<5	<5
W-1	ug/L	12/18/1996	800	78	<5	<5			<10		10	<5	<5	<5		<5	<5		<5	<5	<10
W-1	ug/L	1/14/1998	1100	62	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-1	ug/L	8/20/1998	1200	79	<5	<5			14		<10	<5	<5	<5		<5	8.6		8.4	<5	26
W-1	ug/L	1/29/1999	1400	57	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	18
W-1	ug/L	7/19/1999	1500	48	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-1	ug/L	8/3/2000	880	29	<1	<1			10		<10	<1	<1	<1		<1	1.6		1.6	<0.5	7.3
W-1	ug/L	2/8/2001	<500	21	<1	<1			68		<10	<1	<1	<1		<1	2.3		<1	<0.5	6.3
W-1	ug/L	7/26/2001	620	18	<1	<1			62		<10	<1	<1	<1		<1	2.8		1.8	<0.5	6.8
W-1	ug/L	5/8/2002	280	7.7	<1	<1			5.9	44000	<10	<1	<1	<1		<1	3.1		<1	<0.5	6.4
W-1	ug/L	9/25/2002	210	12	<1	<1			1.9	30000	<10	<1	<1	<1		<1	6.5		<1	<0.5	14
W-1	ug/L	7/1/2004	460	14	2.8	1.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5		4J	9.3		1J	<5	2
W-1	ug/L	10/6/2005	310	43	<1	<1	<1	<1	25	34	<10	<1	<1	<1		1.6	<1		<1	<0.5	7.1
W-1	ug/L	2/15/2006	266	32	<5	<5	<5	<5	22	37	<5	<5	<5	<5		1.3	<5		<5	<5	3.3
W-1	ug/L	8/3/2006	1100	86	<2	<2	<2	<2	77	100	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	ug/L	11/9/2006	470	100	<2	<2	<2	<2	65	78	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	ug/L	2/8/2007	500	77	<2	<2	<2	<2	21	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	ug/L	5/10/2007	890	110	0.57	0.61	<2	0.32	28	43	1	<2	<2	<2		0.42	<2		<2	<2	1.8
W-1	ug/L	8/9/2007	1100	140	0.84	0.84	<2	0.63	64	84	1.1	<2	<2	<2		0.47	<2		0.32	<2	1.9
W-1	ug/L	11/7/2007	1200	140	1.6	1.2	0.68	0.91	56	80	1.6	0.38	2.1	<0.32		0.7	<0.32		<0.27	<0.28	1.2
W-1	ug/L	2/7/2008	1000	96	<2	<2	<2	<2	31	51	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	ug/L	1/20/2009	230	15	<2	<2	<2	<2	3.1	23	<5	<2	<2	<2		0.87	<2		0.58	<2	2.8
W-1	ug/L	1/20/2009	220	19	<2	<2	<2	<2	3.9	35	<5	<2	<2	<2		1.1	0.4		0.61	<2	3.7
W-1	ug/L	4/24/2009	180	3.9	<2	<2	<2	<2	<5	26	<5	<2	<2	<2		1.4	<2		0.74	<2	9.5
W-1	UG/L	3/5/2010	270	3.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.3
W-1	UG/L	5/13/2010	260	9.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.2
W-1	UG/L	8/6/2010	260	17	<0.50	<0.50		<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-1	UG/L	11/5/2010	150	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	2/4/2011	200	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	4/14/2011	150	1.4	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	8/26/2011	130	3.9	<0.50	<0.50	<1.0	<0.50	1.3	16	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<0.50	6.4
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	2/6/2012	160	18	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<0.50	2.4
W-1	UG/L	5/7/2012	680	15	<0.50	<0.50	<1.0	<0.50	<1.0	23	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<0.50	1.8
W-1	UG/L	8/27/2012	180	9.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	11/5/2012	67	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	<10	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	1/30/2013	120	11	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-1	UG/L	4/3/2013	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	ug/L	11/8/2006	26000	8200	5000	570	2100	820	<100	<1000	340	360	110	<40		<40	<40		<40	<40	<100
W-10	ug/L	2/9/2007	28000	6400	2200	520	2200	710	<500	<5000	<500	280	<200	<200		<200	<200		<200	<200	<500
W-10	ug/L	2/9/2007	26000	5100	1600	410	1800	570	<500	<5000	<500	260	<200	<200		<200	<200		<200	<200	<500
W-10	ug/L	5/11/2007	7900	430	140	100	480	130	<10	84	100	130	48	<4		<4	6		8.2	1.2	3 6
W-10	ug/L	5/11/2007	7800	500	160	110	540	150	<25	85	150	150	53	<10		<10	6.6		8.8	1.4	3 9
W-10	ug/L	8/9/2007	5400	590	20	82	330	40	<25	68	59	90	33	<10		<10	6.4		8	<10	3
W-10	ug/L	11/9/2007	<12000	4700	460	330	1300	240	<32	<490	240	190	55	<32		<27	<32		<27	<28	<30
W-10	ug/L	2/8/2008	<28000	7200	280	300	1300	190	<500	<5000	140	140	38	<200		<200	<200		<200	<200	<500
W-10	ug/L	2/8/2008	<25000	7600	310	330	1400	200	<500	<5000	170	150	42	<200		<200	<200		<200	<200	<500
W-10	ug/L	1/21/2009	20000	8100	<200	440	1400	<200	<500	<5000	<500	230	<200	<200		<200	<200		<200	<200	<500
W-10	ug/L	4/27/2009	16000	7400	<200	490	1400	<200	<500	<5000	270	230	36	<200		<200	<200		<200	<200	<500
W-10	ug/L	4/27/2009	15000	5100	<200	350	830	<200	<500	<5000	220	190	31	<200		<200	<200		<200	<200	<500
W-10	UG/L	3/8/2010	12000	4200	4.4	200		1.6	<1.0	<10	110	93	18	<1.0		<1.0	<1.0		<1.0	7.3	<1.0
W-10	UG/L	3/8/2010	8600	3100	<250	<250		<250	<500	<5000	<500	<500	<500	<500		<500	<500		<500	<250	<500
W-10	UG/L	5/17/2010	9500	3900	7.4	230		1.9	<1.0	<10	130	70	13	<1.0		<1.0	<1.0		<1.0	2.7	<1.0
W-10	UG/L	5/17/2010	10000	2900	10	160		1.7	<1.0	15	110	82	14	<1.0		<1.0	<1.0		<1.0	4.2	<1.0
W-10	UG/L	8/9/2010	7900	2400	12	130		1.9	<1.0	93	60	62	10	<1.0		<1.0	<1.0		<1.0	3.0	<1.0
W-10	UG/L	11/8/2010	7700	2900	45	160	140	6.4	<1.0	<10	180	56	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	2.6	1.4
W-10	UG/L	2/8/2011	11000	2600	100	160	140	28	<1.0	<10	150	61	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0
W-10	UG/L	4/21/2011	12000	4900	97	240	190	38	<1.0	250	150	65	15	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	12	<1.0
W-10	UG/L	9/1/2011	8200	2900	2.2	120	44	1.1	<1.0	140	97	31	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0
W-10	UG/L	11/16/2011	8800	840	3.9	190	92	1.1	<1.0	<10	94	49	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	2/8/2012	10000	3100	5.5	230	150	2.9	<1.0	<10	130	73	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0
W-10	UG/L	5/10/2012	1000	15	<0.50	1.4	1.2	<0.50	<1.0	<10	21	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	8/28/2012	8200	3100	4.3	160	32	1.4	<1.0	61	270	27	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0
W-10	UG/L	11/7/2012	5100	930	7.9	120	65	2.9	<1.0	65	130	27	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0
W-10	UG/L	1/29/2013	160	4.4	8.1	5.6	22	9.9	<1.0	35	71	15	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	4/1/2013	490	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	150	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	ug/L	11/9/2006	5200	99	12	74	240	37	<5	<50	<5	73	40	<2		<2	18		<2	<2	<5
W-11	ug/L	11/9/2006	12000	96	7.8	54	140	21	<5	<50	<5	60	34	<2		<2	18		<2	<2	<5
W-11	ug/L	2/9/2007	8000	95	14	78	280	27	<10	<100	<10	56	28	<4		<4	15		<4	<4	<10
W-11	ug/L	5/9/2007	540	45	1.6	19	47	3.1	<5	<50	0.68	9	4.4	<2		0.41	18		<2	<2	0.96
W-11	ug/L	8/8/2007	<1100	700	3.7	36	11	7.1	<5	<50	0.81	15	8.6	<2		<2	9.9		<2	0.29	1.1
W-11	ug/L	11/8/2007	460	61	1.2	14	37	13	<0.32	<4.9	1	35	17	<0.32		<0.27	10		<0.27	<0.28	<0.3
W-11	UG/L	12/8/2010	77000	150	51	260	2300	690	17	43	48	1300	800	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0
W-11	UG/L	2/4/2011	10000	100	1.2	23	100	16	<1.0	<10	7.6	100	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	4/15/2011	6300	410	15	50	390	18	<1.0	<10	3.4	83	280	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	8/29/2011	10000	560	2.2	57	640	14	<1.0	<10	<1.0	100	190	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/14/2011	10000	620	3.0	100	510	7.5	<1.0	<10	6.0	130	240	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	2/8/2012	2900	12	<0.50	6.2	50	0.80	<1.0	<10	2.7	24	39	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.90	<1.0
W-11	UG/L	5/10/2012	1800	8.4	<0.50	3.1	7.3	0.80	<1.0	<10	1.7	4.6	10	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.50	<1.0
W-11	UG/L	8/28/2012	7400	16	30	47	130	20	<1.0	<10	5.0	70	97	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/8/2012	340	23	3.1	1.6	23	2.0	<1.0	<10	2.5	5.0	63	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/19/2012	1400	24	1.6	0.82	6.2	<0.50	<1.0	<10	3.0	3.1	60	<1.0	<1.0	<1.0	5.3	<1.0	<1.0	<0.50	1.3
W-11	UG/L	1/31/2013	300	25	8.2	3.7	25	8.9	<1.0	<10	33	14	42	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-11	UG/L	4/5/2013	250	14	0.75	1.2	3.2	0.57	<1.0	<10	<1.0	1.4	8.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	ug/L	11/8/2006	1400	<2	<2	<2	<2	<2	<5	55	<5	<2	<2	<2		<2	5.4		<2	<2	<5
W-12	ug/L	2/7/2007	4800	<2	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	6.8		<2	<2	<5
W-12	ug/L	5/9/2007	220	<2	<2	<2	<2	<2	<5	40	<5	<2	<2	<2		0.31	4.3		<2	0.37	1.1
W-12	ug/L	8/8/2007	1100	<2	<2	0.56	<2	<2	0.36	40	<5	<2	<2	<2		<2	3.1		<2	<2	0.85
W-12	ug/L	11/6/2007	1500	0.37	<0.36	0.97	<0.6	<0.3	1.2	58	0.66	<0.23	<0.26	<0.32		<0.27	2.6		<0.27	0.42	0.47
W-12	ug/L	2/8/2008	410	0.94	<2	3	<2	<2	0.82	54	2.5	<2	<2	<2		<2	1.8		<2	0.45	<5
W-12	ug/L	1/20/2009	620	<2	<2	0.69	<2	<2	<5	32	<5	<2	<2	<2		0.48	5.4		<2	<2	2.4
W-12	ug/L	4/22/2009	1100	<2	<2	2.1	<2	<2	0.33	30	8.2	0.26	<2	<2		<2	3.7		<2	<2	1.5
W-12	UG/L	3/4/2010	400	<0.50	<0.50	2.1		<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	5/12/2010	610	<0.50	<0.50	3.0		<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	8/5/2010	650	<0.50	<0.50	3.5		<0.50	<1.0	<10	2.8	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	11/4/2010	530	<0.50	<0.50	1.4	<1.0	<0.50	<1.0	<10	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	2/3/2011	310	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	4/19/2011	220	<0.50	<0.50	0.57	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	2.7
W-12	UG/L	8/25/2011	360	<0.50	<0.50	1.3	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	11/14/2011	63	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	2/8/2012	400	<0.50	<0.50	2.2	<1.0	<0.50	<1.0	<10	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	2.2
W-12	UG/L	5/9/2012	450	<0.50	<0.50	0.59	<1.0	<0.50	<1.0	27	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	1.2
W-12	UG/L	8/30/2012	580	<0.50	<0.50	1.5	1.0	<0.50	<1.0	<10	20	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	11/8/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	1/31/2013	<50	<0.50	1.2	1.6	8.4	4.0	<1.0	<10	34	10	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	4/2/2013	150	<0.50	<0.50	3.0	17	4.2	<1.0	26	13	15	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	ug/L	2/12/2008	42	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	2.3		1.1	9		0.46	0.37	<5
W-14A	ug/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-14A	ug/L	4/21/2009	54	<2	<2	<2	<2	<2	0.47	8.1	<5	<2	<2	1.3		0.86	8.7		0.44	0.4	<5
W-14A	UG/L	3/1/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-14A	UG/L	5/10/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0
W-14A	UG/L	8/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.4		<1.0	<0.50	<1.0
W-14A	UG/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	1/31/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	4/4/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	8/22/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.8	1.0	5.2	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	1/30/2012	200	1.5	<0.50	38	<1.0	<0.50	<1.0	<10	<1.0	1.1	<1.0	<1.0	3.2	<1.0	10	1.4	<1.0	<0.50	<1.0
W-14A	UG/L	5/1/2012	390	41	<0.50	9.5	1.3	2.7	2.9	<10	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	8/20/2012	1600	500	16	34	78	64	2.9	<10	110	57	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	10/26/2012	3800	4500	5.1	150	240	110	1.5	<10	51	120	42	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.4
W-14A	UG/L	1/22/2013	1100	110	<0.50	33	2.2	<0.50	<1.0	<10	13	13	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	4/1/2013	96	5.8	1.8	1.4	6.6	4.5	<1.0	<10	91	12	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14B	ug/L	2/12/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.72		<2	0.83		<2	<2	<5
W-14B	ug/L	1/13/2009	170	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	8.4		<2	4.8		<2	<2	<5
W-14B	ug/L	4/21/2009	65	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	19		2.6	9.6		2.2	0.45	<5
W-14B	UG/L	3/1/2010	99	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	5.6		<1.0	<0.50	<1.0
W-14B	UG/L	5/10/2010	99	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	1.2		1.1	6.2		<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-14B	UG/L	8/2/2010	55	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	<1.0
W-14B	UG/L	11/1/2010	88	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.0	45	2.0	10	14	1.2	<0.50	<1.0
W-14B	UG/L	1/31/2011	65	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	9.7	<1.0	2.0	3.1	<1.0	<0.50	<1.0
W-14B	UG/L	4/4/2011	<50	<0.50	1.8	<0.50	<1.0	<0.50	<1.0	48	<1.0	<1.0	<1.0	15	99	2.8	13	34	2.9	0.53	<1.0
W-14B	UG/L	8/22/2011	200	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	28	130	2.4	9.8	53	3.2	0.98	<1.0
W-14B	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	1.8	<1.0	<0.50	<1.0
W-14B	UG/L	1/30/2012	220	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	22	100	<1.0	12	55	3.1	<0.50	<1.0
W-14B	UG/L	5/1/2012	150	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	69	<1.0	<1.0	<1.0	8.0	82	<1.0	11	53	2.4	<0.50	<1.0
W-14B	UG/L	8/20/2012	180	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	56	<1.0	<1.0	<1.0	8.9	150	2.4	13	60	2.9	<0.50	<1.0
W-14B	UG/L	10/26/2012	52	6.0	<0.50	1.6	4.8	0.89	<1.0	<10	20	1.8	<1.0	4.3	82	1.6	7.4	31	1.6	<0.50	1.9
W-14B	UG/L	1/22/2013	150	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	7.4	98	<1.0	14	44	2.0	<0.50	<1.0
W-14B	UG/L	4/1/2013	<50	<0.50	0.61	<0.50	2.0	1.2	<1.0	<10	21	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14C	ug/L	2/12/2008	260	1.2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.89		5.7	22		3.7	0.48	0.58
W-14C	ug/L	1/14/2009	120	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		8 8	34		3.4	<2	<5
W-14C	ug/L	4/21/2009	67	1.5	<2	<2	<2	<2	<5	10	<5	<2	<2	<2		4.5	23		2.1	<2	<5
W-14C	UG/L	3/1/2010	300	1.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.8	34		2.4	<0.50	<1.0
W-14C	UG/L	5/10/2010	120	0.58	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	13		<1.0	<0.50	<1.0
W-14C	UG/L	8/2/2010	77	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		4.6	35		2.4	<0.50	<1.0
W-14C	UG/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	1/31/2011	60	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.8	1.1	9.9	3.0	<1.0	<0.50	<1.0
W-14C	UG/L	4/4/2011	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	27	<1.0	<1.0	<1.0	<1.0	24	3.9	30	16	3.1	<0.50	<1.0
W-14C	UG/L	8/22/2011	290	0.73	<0.50	<0.50	<1.0	<0.50	<1.0	22	<1.0	<1.0	<1.0	<1.0	21	2.3	26	12	2.2	<0.50	<1.0
W-14C	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	1/30/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	5.3	2.2	<1.0	<0.50	<1.0
W-14C	UG/L	5/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	8/20/2012	71	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.8	1.4	<1.0	<0.50	<1.0
W-14C	UG/L	10/26/2012	<50	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	6.1	<1.0	<1.0	<1.0	<1.0	<1.0	8.4	2.6	<1.0	<0.50	2.6
W-14C	UG/L	1/22/2013	110	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.5	2.6	1.1	<0.50	<1.0
W-14C	UG/L	4/1/2013	<50	<0.50	0.88	0.58	2.7	1.7	<1.0	<10	27	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	ug/L	2/11/2008	2700	620	4.9	5.1	11	<20	650	120	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15A	ug/L	1/14/2009	230	7.4	<2	<2	<2	<2	190	170	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15A	ug/L	4/24/2009	530	8.4	<4	<4	<4	<4	220	220	<10	<4	<4	<4		<4	<4		<4	<4	<10
W-15A	UG/L	3/2/2010	240	0.93	<0.50	<0.50		<0.50	44	94	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	5/10/2010	260	1.5	<0.50	<0.50		<0.50	85	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	8/2/2010	310	0.54	<0.50	<0.50		<0.50	71	180	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	61	<0.50	<0.50	<0.50	<1.0	<0.50	2.5	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	74	0.66	<0.50	<0.50	1.0	<0.50	6.8	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/1/2011	14000	1400	610	400	1800	400	260	390	64	490	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
W-15A	UG/L	4/5/2011	22000	<0.50	<0.50	<0.50	<1.0	<0.50	450	<10	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/2/2012	62000	4400	2400	2400	9900	2300	930	<10	4.6	2900	880	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	5/2/2012	2100000	3900	3600	3900	13000	4400	940	220	450	6200	1800	<10	<10	<10	<10	<10	<10	<5.0	<10
W-15A	UG/L	8/21/2012	23000	540	370	590	3300	620	160	<250	190	1100	340	<25	<25	<25	<25	<25	<25	<12	<25
W-15A	UG/L	10/30/2012	4500	41	23	46	260	75	39	120	330	270	120	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	1/23/2013	2400	100	36	57	200	95	57	<10	120	170	94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	4/2/2013	3400	86	32	79	460	130	72	120	260	230	67	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-15B	ug/L	2/11/2008	<1600	900	<20	<20	7	<20	20	110	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15B	ug/L	1/14/2009	340	160	<2	<2	5	<2	20	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	ug/L	4/24/2009	63	6.2	<2	<2	<2	<2	5.8	98	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	3/2/2010	220	3.8	<0.50	<0.50		<0.50	5.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	5/11/2010	230	20	<0.50	<0.50		<0.50	17	36	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	8/3/2010	250	14	<0.50	<0.50		<0.50	19	67	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	11/2/2010	740	38	<0.50	<0.50	3.2	0.74	50	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/1/2011	120	7.0	1.7	0.55	4.0	1.4	22	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	4/5/2011	1500	<0.50	66	18	120	64	130	<10	6.3	16	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1400	120	40	17	110	30	260	210	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1100	110	34	15	100	29	200	220	<1.0	14	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	11/10/2011	250	17	5.4	2.8	17	3.9	55	<10	<1.0	2.4	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/2/2012	280	35	14	4.4	31	18	100	80	<1.0	2.3	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	5/2/2012	780	27	2.6	3.1	18	6.3	200	160	<1.0	4.4	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/20/2012	98	2.6	<0.50	<0.50	<1.0	0.52	110	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	10/30/2012	190	9.2	2.2	1.5	12	2.7	49	96	43	4.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	1/23/2013	300	3.8	1.9	9.0	65	15	12	<10	38	71	25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	4/2/2013	430	1.0	2.3	13	87	19	19	180	46	62	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	ug/L	2/11/2008	<50	0.94	0.57	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	1.1		0.45	0.35	0.34
W-15C	ug/L	1/15/2009	29	1.1	<2	<2	<2	<2	<5	27	<5	<2	<2	<2		<2	5.7		1.2	0.86	0 9
W-15C	ug/L	4/24/2009	43	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	1		<2	<2	<5
W-15C	UG/L	3/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.4		<1.0	<0.50	<1.0
W-15C	UG/L	5/11/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-15C	UG/L	8/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	20	<1.0	<1.0	<1.0	<1.0		<1.0	4.7		1.0	0.54	1.5
W-15C	UG/L	11/2/2010	70	<0.50	<0.50	<0.50	<1.0	<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	2/1/2011	94	1.6	0.85	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	4/5/2011	120	10	4.8	1.9	10	2.6	4.2	<10	1.1	<1.0	<1.0	<1.0	4.6	<1.0	6.6	1.5	1.4	<0.50	1.8
W-15C	UG/L	8/23/2011	89	9.5	3.5	1.4	13	2.7	5.2	<10	<1.0	1.8	<1.0	<1.0	5.5	<1.0	6.5	1.6	<1.0	<0.50	<1.0
W-15C	UG/L	11/8/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	1/31/2012	53	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	5.8	1.5	<1.0	<0.50	<1.0
W-15C	UG/L	5/2/2012	60	0.64	0.67	1.4	6.4	1.3	<1.0	<10	<1.0	3.2	1.2	<1.0	1.3	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	8/21/2012	140	4.1	1.7	0.92	5.9	1.4	1.7	10	2.9	1.5	<1.0	<1.0	3.7	<1.0	5.2	1.2	<1.0	<0.50	<1.0
W-15C	UG/L	10/30/2012	120	16	4.9	3.2	36	7.1	3.4	<10	9.9	6.6	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	1/23/2013	180	<0.50	0.80	4.4	33	7.2	<1.0	<10	19	43	15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	4/2/2013	410	20	5.8	9.8	86	21	6.3	25	30	42	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	ug/L	11/9/2007	260	41	<0.36	<0.25	<0.6	<0.3	<0.32	30	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		2.6	<0.28	16
W-16A	ug/L	2/6/2008	310	40	<2	<2	<2	<2	<5	34	<5	<2	0.63	<2		0.88	<2		2.8	<2	14
W-16A	ug/L	1/21/2009	290	30	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		2.5	<2	7 2
W-16A	ug/L	4/27/2009	410	34	<2	<2	<2	<2	<5	20	<5	<2	0.27	<2		0.54	<2		1.8	<2	17
W-16A	UG/L	3/5/2010	220	4.2	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	2.9
W-16A	UG/L	5/14/2010	110	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	8/9/2010	120	0.93	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	11/5/2010	90	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	2/7/2011	320	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<0.50	1.1
W-16A	UG/L	4/18/2011	520	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<0.50	2.2
W-16A	UG/L	8/26/2011	280	13	<0.50	<0.50	<1.0	<0.50	<1.0	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-16A	UG/L	11/8/2011	65	3.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	2/3/2012	230	16	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<0.50	<1.0
W-16A	UG/L	5/3/2012	550	22	<0.50	1.0	4.4	1.1	<1.0	<10	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<0.50	<1.0
W-16A	UG/L	8/22/2012	390	11	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	10/31/2012	86	6.9	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	1/23/2013	84	<0.50	<0.50	0.81	5.4	1.3	<1.0	43	6.5	11	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	4/3/2013	340	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<0.50	<1.0
W-16B	ug/L	11/9/2007	37	7.4	<0.36	<0.25	<0.6	<0.3	<0.32	9.1	0.8	0.26	<0.26	<0.32		8.7	6.6		<0.27	<0.28	<0.3
W-16B	ug/L	2/6/2008	400	48	<2	0.33	<2	<2	<5	9.9	1.9	0.4	<2	<2		43	27		<2	<2	<5
W-16B	ug/L	1/21/2009	73	16	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		15	9.7		<2	<2	<5
W-16B	ug/L	4/27/2009	47	0.9	<20	<20	<20	<20	<50	<500	<50	<20	<20	<20		9.4	6.1		<20	<20	<50
W-16B	UG/L	3/8/2010	73	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.7	5.8		<1.0	<0.50	<1.0
W-16B	UG/L	5/14/2010	60	3.0	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.0	3.0		<1.0	<0.50	<1.0
W-16B	UG/L	8/9/2010	<50	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16B	UG/L	11/5/2010	110	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	9.4	13	<1.0	1.2	<0.50	<1.0
W-16B	UG/L	2/7/2011	290	80	<0.50	<0.50	<1.0	<0.50	<1.0	<10	18	<1.0	<1.0	<1.0	3.5	50	70	2.0	8.5	<0.50	2.9
W-16B	UG/L	4/18/2011	550	100	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	6.4	100	89	2.6	9.2	<0.50	10
W-16B	UG/L	8/26/2011	89	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	12	16	<1.0	1.4	<0.50	1.1
W-16B	UG/L	11/8/2011	<50	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	19	13	<1.0	1.5	<0.50	<1.0
W-16B	UG/L	2/3/2012	210	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.4	24	16	<1.0	1.3	<0.50	<1.0
W-16B	UG/L	5/3/2012	410	150	<0.50	0.58	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.2	100	52	1.2	6.8	<0.50	23
W-16B	UG/L	8/22/2012	61	8.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	6.0	<1.0	<1.0	<0.50	<1.0
W-16B	UG/L	10/31/2012	58	13	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	6.6	4.2	<1.0	<1.0	<0.50	15
W-16B	UG/L	1/23/2013	80	3.5	<0.50	<0.50	2.9	0.82	<1.0	<10	4.9	5.7	1.8	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
W-16B	UG/L	4/3/2013	<50	3.4	<0.50	<0.50	1.1	0.79	<1.0	<10	9.1	1.5	<1.0	<1.0	<1.0	1.2	1.9	<1.0	<1.0	<0.50	<1.0
W-16C	ug/L	11/9/2007	170	18	<0.36	<0.25	<0.6	<0.3	<0.32	13	<0.41	<0.23	<0.26	<0.32		12	40		11	<0.28	5 6
W-16C	ug/L	2/6/2008	360	30	0.46	<2	<2	<2	<5	21	<5	<2	<2	<2		14	66		24	<2	18
W-16C	ug/L	1/21/2009	510	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	73		35	<2	24
W-16C	ug/L	4/28/2009	170	20	<2	<2	<2	<2	<5	8.2	<5	<2	<2	<2		12	41		14	<2	8 2
W-16C	UG/L	3/8/2010	95	2.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	9.1		1.6	<0.50	<1.0
W-16C	UG/L	5/14/2010	63	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.8		1.2	<0.50	<1.0
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16C	UG/L	11/5/2010	390	14	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	7.6	30	1.4	11	<0.50	9.6
W-16C	UG/L	2/7/2011	440	33	0.54	<0.50	<1.0	<0.50	<1.0	<10	6.9	<1.0	<1.0	<1.0	<1.0	15	68	3.3	22	<0.50	14
W-16C	UG/L	4/18/2011	510	39	0.51	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	20	80	4.7	32	<0.50	30
W-16C	UG/L	8/26/2011	320	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	15	63	2.8	24	<0.50	16
W-16C	UG/L	11/9/2011	270	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	16	58	2.1	16	<0.50	<1.0
W-16C	UG/L	2/3/2012	250	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	16	54	2.8	17	<0.50	<1.0
W-16C	UG/L	5/3/2012	380	14	<0.50	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	10	32	<1.0	9.8	<0.50	10
W-16C	UG/L	8/22/2012	520	22	<12	<12	<25	<12	<25	<250	<25	<25	<25	<25	<25	<25	42	<25	<25	<12	<25
W-16C	UG/L	10/31/2012	140	10	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	6.7	16	<1.0	8.0	<0.50	50
W-16C	UG/L	1/23/2013	58	<0.50	<0.50	<0.50	2.8	0.81	<1.0	<10	6.0	4.9	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16C	UG/L	4/3/2013	<50	0.70	<0.50	<0.50	<1.0	0.56	<1.0	<10	7.8	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
W-17A	ug/L	2/14/2008	100	<2	<2	<2	<2	<2	<5	140	<5	<2	<2	<2		<2	6.2		0.47	1.4	0.7

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17A	ug/L	1/16/2009	78	<2	<2	<2	<2	<2	<5	54	0.41	0.33	<2	<2		0.39	1.4		<2	<2	<5
W-17A	ug/L	4/22/2009	180	4.5	<2	<2	<2	<2	<5	57	<5	<2	<2	<2		1.9	7.7		0.51	0.65	<5
W-17A	UG/L	3/3/2010	51	<0.50	<0.50	<0.50		<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-17A	UG/L	5/12/2010	110	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.2		<1.0	<0.50	<1.0
W-17A	UG/L	8/4/2010	56	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-17A	UG/L	11/3/2010	69	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	8/24/2011	98	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.6	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	11/1/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.6	1.1	<1.0	<0.50	<1.0
W-17A	UG/L	1/25/2013	<50	<0.50	<0.50	<0.50	1.7	<0.50	<1.0	<10	2.6	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	4/9/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	ug/L	2/14/2008	39	<2	<2	<2	<2	<2	<5	30	<5	<2	<2	<2		<2	1.4		<2	<2	<5
W-17B	ug/L	1/16/2009	38	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17B	ug/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	0.71		<2	<2	<5
W-17B	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	5/12/2010	54	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	35	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	11/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	1/25/2013	<50	<0.50	<0.50	<0.50	2.0	0.64	<1.0	<10	3.1	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	4/9/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	ug/L	2/14/2008	36	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17C	ug/L	1/16/2009	29	<2	<2	<2	<2	<2	<5	21	<5	<2	<2	<2		<2	1.2		<2	<2	<5
W-17C	ug/L	4/23/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17C	UG/L	3/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17C	UG/L	5/12/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17C	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17C	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17C	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	11/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	1/25/2013	<50	<0.50	<0.50	<0.50	1.3	<0.50	<1.0	<10	2.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	4/9/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-3A	ug/L	1/13/1998	4300000	150000	<6000	35000			<200000												
W-3A	ug/L	8/20/1998	1100	220	<25	33			440		350	<25	<25	<25		<25	<25		<25	<25	<50
W-3A	ug/L	1/28/1999	690	160	<50	<50			340		240	<50	<50	<50		<50	<50		<50	<50	<100
W-3A	ug/L	7/19/1999	5400	120	<20	<20			380		<200	37	<20	<20		<20	<20		<20	<10	<10
W-3A	ug/L	1/13/2000	14000	140	<10	<10			210		<100	<10	<10	<10		<10	<10		<10	<5	7
W-3A	ug/L	8/4/2000	3400	170	<20	8.4			220		<50	2	2	<2		<2	<20		<20	<1	5
W-3A	ug/L	2/8/2001	2700	34	<1	2.9			12		63	13	4.4	<1		<1	<1		<1	<0.5	1.7
W-3A	ug/L	7/26/2001	3400	42	<1	1.7			6.2		11	15	<1	<1		<1	<1		<1	<0.5	27
W-3A	ug/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	ug/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	ug/L	2/16/2006	306	<1	<5	<5	<5	<5	6.2	16	<5	18	16	<5		<5	<5		<5	<5	<5
W-3A	ug/L	8/3/2006	39000	<2	<2	<2	<2	<2	9	<50	38	<2	<2	<2		<2	<2		<2	<2	<5
W-3A	ug/L	11/9/2006	8100	<2	<2	<2	<2	<2	11	<50	37	6.4	9.5	<2		<2	<2		<2	<2	<5
W-3A	ug/L	2/8/2007	1400	<2	<2	<2	<2	<2	8.4	<50	30	3.9	6.1	<2		<2	<2		<2	<2	<5
W-3A	ug/L	5/10/2007	14000	0.66	<2	<2	<2	<2	7.8	23	16	2.3	3.6	<2		<2	<2		<2	<2	<5
W-3A	ug/L	8/9/2007	1900	0.79	<2	<2	<2	0.34	9.8	26	14	2	2.3	<2		<2	<2		<2	<2	<5
W-3A	ug/L	11/7/2007	1500	0.62	<0.36	<0.25	<0.6	<0.3	9.7	26	<0.41	0.64	0.67	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-3A	ug/L	2/7/2008	180	<2	<2	<2	<2	<2	10	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-4	ug/L	3/1/1990		120	<0.5	19								<0.5		<0.5	3.2		8.3	<0.5	<0.5
W-4	ug/L	4/1/1990		28	1.4	4.8								<1		<1	0.81		2.2	<1	4.3
W-4	ug/L	12/18/1996	420	80	<5	<5			<10		<5	<5	<5	<5		<5	<5		<5	<5	<10
W-4	ug/L	1/14/1998	920	120	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-4	ug/L	8/20/1998	500	57	<5	<5			18		<10	<5	<5	<5		<5	<5		<5	<5	9 8
W-4	ug/L	1/29/1999	460	55	<5	<5			20		<10	<5	<5	<5		<5	<5		<5	<5	11
W-4	ug/L	7/19/1999	710	72	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-4	ug/L	1/13/2000	660	49	<1	<1			<1		<10	<1	<1	<1		<1	1.3		<1	<0.5	13
W-4	ug/L	8/3/2000	<500	47	<1	<1					<10	<1	<1	<1		1 2	<1		<1	<0.5	12
W-4	ug/L	2/8/2001	<500	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.1	0.67	7
W-4	ug/L	7/26/2001	320	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1	<0.5	<0.5
W-4	ug/L	5/8/2002	250	33	<1	<1			<1	60000	<10	<1	<1	<1		2	<1		1.3	<0.5	5.2
W-4	ug/L	9/25/2002	290	62	<1	<1			<1	45000	<1	<1	<1	<1		3.8	<1		2	<0.5	<0.5
W-4	ug/L	7/1/2004	350	30	2.6	1.9	0.66	<0.5	<5	<100	<5	<5	<5	<5		1J	3J		2J	<5	11
W-4	ug/L	10/6/2005	350	31	<1	<1	<1	<1	<1	47	<10	<1	<1	<1		<1	6.4		1.7	<0.5	1.3
W-4	ug/L	2/15/2006	501	43	<5	<5	<5	<5	<1	38	<5	<5	<5	<5		<5	2.8		2.5	<5	2.4
W-4	ug/L	8/3/2006	2800	3.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.5		<2	<2	<5
W-4	ug/L	11/9/2006	230	6.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	5.1		<2	<2	<5
W-4	ug/L	2/8/2007	200	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.7		<2	<2	<5
W-4	ug/L	5/10/2007	170	1.5	<2	<2	<2	<2	1.6	30	<5	<2	<2	<2		<2	3.8		<2	<2	1
W-4	ug/L	8/9/2007	280	1	<2	<2	<2	<2	2	18	<5	<2	<2	<2		<2	3.2		<2	<2	0.59
W-4	ug/L	11/7/2007	180	1.9	<0.36	<0.25	<0.6	<0.3	1.4	22	<0.41	<0.23	<0.26	<0.32		<0.27	3.6		0.36	<0.28	<0.3
W-4	ug/L	2/7/2008	210	4.4	<2	<2	<2	<2	<5	55	<1	<2	<2	<2		<1	4.4		<2	<2	<5
W-4	ug/L	2/7/2008	250	3.9	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	4		<2	<2	<5

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-4	ug/L	1/19/2009	140	0.51	<2	<2	<2	<2	<5	47	0.43	<2	<2	<2		<2	7.6		1	<2	1.8
W-4	ug/L	4/27/2009	92	<2	<2	<2	<2	<2	<5	34	<5	<2	<2	<2		<2	7.3		0.61	<2	1.9
W-4	UG/L	3/5/2010	600	1.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	7.4
W-4	UG/L	5/13/2010	700	4.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	5.4
W-4	UG/L	8/6/2010	570	68	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.0		<1.0	<0.50	7.2
W-4	UG/L	11/4/2010	980	180	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
W-4	UG/L	2/8/2011	1800	480	<0.50	1.2	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	8.6
W-4	UG/L	4/14/2011	1400	460	0.59	1.2	<1.0	<0.50	1.1	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	11
W-4	UG/L	8/25/2011	840	190	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1.8
W-4	UG/L	11/14/2011	1200	390	<2.5	0.76	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-4	UG/L	2/6/2012	1100	410	<0.50	0.79	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	6.2
W-4	UG/L	5/7/2012	910	140	<0.50	<0.50	<1.0	<0.50	<1.0	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.1
W-4	UG/L	8/27/2012	910	<0.50	<0.50	<0.50	<1.0	<0.50	1.9	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	2.8
W-4	UG/L	11/5/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	6.3	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-4	UG/L	1/30/2013	160	28	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-4	UG/L	1/30/2013	190	43	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<0.50	<1.0
W-4	UG/L	4/8/2013	360	18	<0.50	<0.50	<1.0	<0.50	2.8	77	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	3.8
W-7	ug/L	8/4/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	<1		<1	<0.5		1.2	<1	<0.5
W-7	ug/L	2/8/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	ug/L	7/26/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	ug/L	5/7/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	ug/L	9/24/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	ug/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	ug/L	2/16/2006	60.9	<1	<5	<5	<5	<5	<1	<10	<5	1.1	<5	<5		<5	<5		<5	<5	<5
W-7	ug/L	8/4/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	ug/L	11/10/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	ug/L	2/9/2007	<50	<2	<2	<2	2.6	<2	<5	<50	<5	2.2	<2	<2		<2	<2		<2	<2	<5
W-7	ug/L	5/8/2007	31	0.41	0.45	0.87	1.4	0.75	<5	<50	0.9	1.4	0.35	<2		<2	<2		0.41	<2	<5
W-7	ug/L	8/10/2007	<50	<2	<2	0.25	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	ug/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-7	ug/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	ug/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	ug/L	4/21/2009	<50	0.31	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		1.7	<2	<5
W-7	UG/L	3/4/2010	65	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		2.0	<0.50	<1.0
W-7	UG/L	5/17/2010	60	<0.50	<0.50	<0.50		0.51	<1.0	<10	2.3	<1.0	<1.0	<1.0		<1.0	<1.0		1.9	<0.50	<1.0
W-7	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		2.6	<0.50	<1.0
W-7	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		2.6	<0.50	<1.0
W-7	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<0.50	<1.0
W-7	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0
W-7	UG/L	4/14/2011	<50	0.57	0.55	0.51	<1.0	0.57	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<0.50	<1.0
W-7	UG/L	8/24/2011	<50	0.52	0.50	0.53	<1.0	0.53	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0
W-7	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	0.51	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0
W-7	UG/L	11/10/2011	<50	<0.50	<0.50	0.56	<1.0	0.61	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0
W-7	UG/L	2/8/2012	<50	<0.50	<0.50	0.57	<1.0	0.59	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<1.0
W-7	UG/L	5/9/2012	57	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<1.0
W-7	UG/L	8/29/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-7	UG/L	11/7/2012	<50	0.53	<0.50	0.64	<1.0	0.57	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-7	UG/L	2/1/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-7	UG/L	4/4/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	ug/L	8/4/2000	<500	2.8	<4.6	<1			<1		<1	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-8	ug/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-8	ug/L	7/26/2001	180	0.67	<1	<1			<1		<1	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	ug/L	5/7/2002	180	0.51	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	ug/L	9/24/2002	<100	0.64	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	ug/L	7/1/2004	390	1.9J	1.8	0.72	0.92	<0.5	<5	<100	<5	<5	<5	<5		<5	<5		<5	<5	<5
W-8	ug/L	10/6/2005	220	0.52	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-8	ug/L	2/16/2006	192	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5		<5	<5		<5	<5	<5
W-8	ug/L	8/4/2006	130	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	11/10/2006	210	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	2/9/2007	130	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	5/8/2007	110	0.49	0.73	0.33	<2	<2	<5	<50	<5	0.23	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	8/7/2007	170	0.49	0.82	0.44	<2	0.38	<5	<50	<5	0.3	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	11/6/2007	160	0.52	0.75	0.4	<0.6	0.3	<0.32	7.5	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-8	ug/L	2/4/2008	160	0.46	0.81	0.39	<2	<2	<5	<50	<5	0.25	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	1/13/2009	120	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	ug/L	4/21/2009	150	0.45	0.82	0.37	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	3/4/2010	220	<0.50	0.85	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	5/17/2010	200	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	5/17/2010	210	<0.50	0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	8/4/2010	110	<0.50	0.80	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	11/4/2010	140	<0.50	0.60	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	2/7/2011	130	<0.50	0.85	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	4/21/2011	130	0.57	1.1	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	4/21/2011	140	0.56	1.0	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	9/1/2011	2000	0.57	0.77	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	11/10/2011	110	<0.50	0.64	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	2/7/2012	90	<0.50	0.73	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	5/10/2012	180	<0.50	0.87	<0.50	<1.0	<0.50	<1.0	<10	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	8/29/2012	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	11/7/2012	62	0.50	0.75	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	2/13/2013	<50	<0.50	0.87	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	4/4/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	ug/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	ug/L	2/6/2007	67	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	ug/L	5/9/2007	50	<2	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		<2	2		<2	<2	<5
W-9	ug/L	8/7/2007	38	<2	<2	<2	<2	<2	<5	22	<5	<2	<2	<2		0.31	3		<2	<2	<5
W-9	ug/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	19	<0.41	<0.23	<0.26	<0.32		0.31	3.8		<0.27	<0.28	<0.3
W-9	ug/L	2/5/2008	<50	<2	<2	<2	<2	<2	<5	23	0.5	<2	<2	<2		0.3	3.4		<2	<2	<5
W-9	ug/L	1/15/2009	46	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	3.2		<2	<2	<5
W-9	ug/L	4/23/2009	36	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	2.6		<2	<2	<5
W-9	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0
W-9	UG/L	5/12/2010	80	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	2.8		<1.0	<0.50	<1.0
W-9	UG/L	8/4/2010	67	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.0		<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
2Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-9	UG/L	11/3/2010	87	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	2/8/2012	59	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	5/9/2012	89	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	8/28/2012	70	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	1/31/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	4/5/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<0.50	<1.0

NOTES:

PCE - Tetrachloroethylene
TCE - Trichloroethylene
c1,2-DCE - cis-1,2-Dichloroethene
t1,2-DCE - trans-1,2-Dichloroethene
1,1-DCE - 1,1-Dichloroethene
1,2-DCA - 1,2-Dichloroethane
1,3,5-TMB - 1,3,5-Trimethylbenzene
1,2,4-TMB - 1,2,4-Trimethylbenzene
VC - Vinyl Chloride
B- Benzene
T - Toluene
E - Ethylbenzene
X - Xylenes, total
nBUT - n-Butylbenzene
sBUT - sec-Butylbenzene
tBUT - tert-Butylbenzene
nPRO - n-Propylbenzene
1,1 DCA - 1,1-Dichloroethane
ISO-P - Isopropylbenzene
MC - Methylene Chloride
NAP - Naphthalene
TRIM - Trichlorofluoromethane
PMXY - p/m-Xylenes
OXYL -o-Xylene
DIPE - Diisopropyl Ether (DIPE)
MTBE - Methyl-tert-Butyl Ether (MTBE)
TBA - tert-Butyl Alcohol (TBA)
ND - Not Detected above laboratory detection limits
UG/L - Micrograms per litre
NA - Information not available

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
2Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-104A	12/18/2009	7.31	5.31	3
MW-104A	3/3/2010	6.93	1.65	66
MW-104A	5/11/2010	8.06	NM	19
MW-104A	8/4/2010	7.65	2.32	205
MW-104A	11/3/2010	8.06	2.00	131
MW-104A	2/2/2011	8.46	3.05	136.4
MW-104A	4/14/2011	8.10	2.85	128.5
MW-104A	8/24/2011	7.53	4.47	19.6
MW-104A	11/10/2011	7.38	5.47	67
MW-104A	2/9/2012	8.79	2.42	-14.5
MW-104A	5/9/2012	8.18	4.36	-39.3
MW-104A	8/27/2012	7.69	1.96	51.9
MW-104A	11/6/2012	NM	NM	NM
MW-104A	1/28/2013	7.80	2.52	-43.6
MW-104A	4/5/2013	NM	NM	NM
MW-106A	12/17/2009	7.25	7.29	-112
MW-106A	3/5/2010	6.73	4.71	116
MW-106A	5/13/2010	8.06	7.90	-38
MW-106A	8/6/2010	8.05	4.52	210
MW-106A	11/4/2010	8.23	3.09	77
MW-106A	2/3/2011	NM	NM	NM
MW-106A	4/19/2011	NM	NM	NM
MW-106A	8/25/2011	7.67	2.98	-28.1
MW-106A	11/14/2011	7.03	4.74	33
MW-106A	2/3/2012	NM	NM	NM
MW-106A	8/24/2012	NM	NM	NM
MW-106A	11/6/2012	NM	NM	NM
MW-106A	1/28/2013	NM	NM	NM
MW-106A	4/4/2013	NM	NM	NM
MW-107A	12/17/2009	7.20	6.99	-276
MW-107A	3/5/2010	8.70	1.81	-307
MW-107A	5/13/2010	8.30	NM	-370
MW-107A	8/6/2010	8.10	3.25	-280
MW-107A	11/4/2010	8.16	2.04	-245
MW-107A	2/3/2011	8.49	3.42	-338
MW-107A	4/19/2011	8.02	1.93	-276.8
MW-107A	8/25/2011	7.82	2.68	-216.7
MW-107A	11/14/2011	7.19	3.73	-161.3
MW-107A	1/31/2012	8.88	2.6	-240

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
2Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-107A	5/8/2012	8.40	2.34	-273.6
MW-107A	8/24/2012	8.12	2.89	-226.7
MW-107A	11/6/2012	8.27	2.38	-236.7
MW-107A	1/28/2013	7.96	2.25	-257.3
MW-107A	4/4/2013	8.25	2.25	-251.8
MW-503B	12/15/2009	6.92	7.78	-137
MW-503B	3/8/2010	7.33	3.38	-96
MW-503B	5/17/2010	8.18	1.79	-69
MW-503B	8/9/2010	7.60	2.72	147
MW-503B	11/8/2010	7.62	2.93	7
MW-503B	2/4/2011	7.96	2.16	-46
MW-503B	4/15/2011	7.61	1.74	-46.4
MW-503B	8/29/2011	7.50	2.57	-96.1
MW-503B	11/16/2011	6.76	3.01	-41.3
MW-503B	1/31/2012	8.50	3.06	-150.6
MW-503B	5/8/2012	7.73	2.46	-145.0
MW-503B	8/30/2012	8.05	2.50	-13.0
MW-503B	11/5/2012	8.00	2.06	96.5
MW-503B	1/30/2013	7.67	2.10	31.9
MW-503B	4/8/2013	7.72	2.46	-31.5
W-1	12/15/2009	7.62	7.10	-39
W-1	3/5/2010	7.51	3.15	-111
W-1	5/13/2010	8.07	2.02	-197
W-1	8/6/2010	7.52	3.22	-22
W-1	11/5/2010	8.13	2.75	38
W-1	2/4/2011	8.18	4.84	-63.7
W-1	4/14/2011	7.65	1.94	37.3
W-1	8/26/2011	7.47	3.16	-86
W-1	11/14/2011	7.08	2.9	-75.9
W-1	2/6/2012	7.99	2.87	-79.4
W-1	5/7/2012	7.85	3.03	-62.4
W-1	8/27/2012	7.90	2.69	-60.4
W-1	11/5/2012	7.82	2.47	-40.0
W-1	1/30/2013	7.64	3.07	66.5
W-1	4/3/2013	8.06	3.57	-96.5
W-4	12/15/2009	8.27	9.40	21
W-4	3/5/2010	7.09	3.41	-101
W-4	5/13/2010	8.00	3.87	-66
W-4	8/6/2010	7.74	3.48	16

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
2Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-4	11/4/2010	7.75	3.50	45
W-4	2/8/2011	7.67	5.53	-3.5
W-4	4/14/2011	7.79	4.47	107.8
W-4	8/25/2011	7.54	4.75	-92.5
W-4	11/14/2011	6.88	4.49	-47.3
W-4	2/6/2012	8.36	3.7	-53.2
W-4	5/7/2012	8.10	3.24	-54
W-4	8/27/2012	8.08	3.84	11.7
W-4	11/5/2012	8.18	3.95	20.2
W-4	1/30/2013	7.66	2.86	111.4
W-4	4/8/2013	7.91	3.97	-45.8
W-8	12/18/2009	10.11	7.07	-230
W-9	3/3/2010	7.53	5.66	69
W-9	5/12/2010	8.07	7.15	-175
W-9	8/4/2010	7.36	3.36	-60
W-9	4/5/2011	7.71	4.07	82.3
W-9	8/24/2011	7.62	4.9	-4.9
W-9	11/10/2011	NM	NM	NM
W-9	2/8/2012	8.32	3.95	61.8
W-9	5/9/2012	7.77	3.69	-49.5
W-9	8/28/2012	7.70	2.61	36.6
W-9	11/7/2012	NM	NM	NM
W-9	1/31/2013	7.49	2.37	13.1
W-9	4/5/2013	7.72	2.81	-93.6
W-10	12/18/2009	7.21	6.89	-97
W-10	3/8/2010	NM	NM	NM
W-10	5/17/2010	NM	NM	NM
W-10	8/9/2010	NM	NM	NM
W-10	11/3/2010	7.53	3.39	-10
W-10	11/8/2010	NM	NM	NM
W-10	2/2/2011	7.83	3.57	41.6
W-10	2/8/2011	7.28	5.51	-103
W-10	4/15/2011	NM	NM	NM
W-10	8/29/2011	7.14	2.7	-130.2
W-10	11/10/2011	NM	NM	NM
W-10	2/8/2012	NM	NM	NM
W-10	5/10/2012	NM	NM	NM
W-10	8/28/2012	NM	NM	NM
W-10	11/7/2012	NM	NM	NM

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
2Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-10	1/28/2013	NM	NM	NM
W-10	4/1/2013	NM	NM	NM
W-11	12/8/2010	NM	NM	NM
W-11	2/4/2011	7.67	5.62	-119
W-11	4/15/2011	7.58	1.68	-77
W-11	8/29/2011	7.35	2.2	-125.7
W-11	11/14/2011	6.93	2.63	-148.6
W-11	2/8/2012	8.38	3.3	45.6
W-11	5/10/2012	7.84	2.75	-76.5
W-11	8/28/2012	7.50	1.56	-122.5
W-11	11/8/2012	7.92	1.75	24.7
W-11	1/31/2013	7.64	2.62	-120.3
W-11	4/5/2013	7.81	2.36	-69.2
W-12	12/18/2009	6.99	6.96	0
W-12	3/4/2010	7.53	3.15	-63
W-12	5/12/2010	7.87	NM	-180
W-12	8/5/2010	7.61	2.65	-100
W-12	11/4/2010	7.88	2.64	7
W-12	2/3/2011	8.28	2.85	-99
W-12	4/19/2011	7.77	2.10	15.2
W-12	8/25/2011	7.50	2.78	-58.5
W-12	11/14/2011	6.93	3.77	-34.7
W-12	2/8/2012	8.13	2.57	-113
W-12	5/9/2012	7.89	3.22	-74.5
W-12	8/30/2012	7.63	2.15	-98.7
W-12	11/8/2012	7.88	2.31	-42.6
W-12	1/31/2013	7.76	2.18	-70.3
W-12	4/2/2013	7.83	1.74	-98.7
W-14A	12/15/2009	7.65	7.76	-23.0
W-14A	3/1/2010	6.61	4.09	58.0
W-14A	5/10/2010	8.63	2.74	2.0
W-14A	8/2/2010	8.02	3.12	145.0
W-14A	11/1/2010	8.30	2.87	46.0
W-14A	1/31/2011	8.30	13.16	185.4
W-14A	4/4/2011	8.29	4.81	89.6
W-14A	8/22/2011	7.87	10.15	22.8
W-14A	11/7/2011	7.40	5.23	151.6
W-14A	1/30/2012	8.06	1.48	2.6
W-14A	8/20/2012	8.10	3.44	-76.9

Table IV
Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14A	10/29/2012	8.23	3.01	22.5
W-14A	1/22/2013	8.18	5.24	226.9
W-14A	4/1/2013	8.35	2.98	-168.2
W-14B	12/15/2009	8.37	7.79	97
W-14B	3/1/2010	7.72	2.60	-5
W-14B	5/10/2010	8.43	3.00	-172
W-14B	8/2/2010	7.80	4.60	33
W-14B	11/1/2010	8.13	3.37	37
W-14B	1/31/2011	8.17	19.82	194
W-14B	4/4/2011	8.27	5.95	82.6
W-14B	8/22/2011	7.95	7.90	22.7
W-14B	11/7/2011	7.22	4.92	67.8
W-14B	1/30/2012	8.70	2.90	-133.7
W-14B	8/20/2012	8.27	4.00	-30.3
W-14B	10/29/2012	8.21	3.49	-18.2
W-14B	1/22/2013	7.96	4.24	130.4
W-14B	4/1/2013	8.28	2.90	-203.6
W-14C	12/15/2009	8.24	8.57	77.0
W-14C	3/1/2010	7.22	2.43	188.0
W-14C	5/10/2010	8.17	0.80	-77.0
W-14C	8/2/2010	7.60	3.55	128.0
W-14C	11/1/2010	7.89	3.15	49.0
W-14C	1/31/2011	7.88	10.85	188.0
W-14C	4/4/2011	7.98	3.27	51.3
W-14C	8/22/2011	7.76	4.24	-3.7
W-14C	11/7/2011	7.33	7.47	59.2
W-14C	1/30/2012	8.75	3.65	-65.2
W-14C	5/1/2012	8.18	4.07	41.5
W-14C	8/20/2012	8.18	4.95	5.1
W-14C	10/29/2012	8.16	3.77	-20.0
W-14C	1/22/2013	7.88	3.37	127.5
W-14C	4/1/2013	8.22	2.63	-181.5
W-15A	12/14/2009	7.31	9.15	85.0
W-15A	3/2/2010	7.12	2.67	202.0
W-15A	5/10/2010	7.90	NM	-228.0
W-15A	8/2/2010	7.39	1.96	-145.0
W-15A	11/1/2010	7.67	2.85	32.0
W-15A	2/1/2011	7.89	2.05	-33.0
W-15A	4/5/2011	8.00	2.60	-81.7

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-15A	8/23/2011	7.47	4.96	-148.7
W-15A	11/8/2011	(FPPH)	(FPPH)	(FPPH)
W-15A	2/2/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	5/2/2012	8.06	3.26	-26.4
W-15A	8/21/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	10/30/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	1/23/2013	(FPPH)	(FPPH)	(FPPH)
W-15A	4/2/2013	(FPPH)	(FPPH)	(FPPH)
W-15B	12/14/2009	7.39	7.44	-58.0
W-15B	3/2/2010	7.61	2.39	94.0
W-15B	5/11/2010	8.09	4.36	-15.0
W-15B	8/3/2010	7.74	3.42	107.0
W-15B	11/2/2010	8.06	3.18	40.0
W-15B	2/1/2011	8.15	4.58	286.0
W-15B	4/5/2011	8.10	2.92	62.4
W-15B	8/23/2011	7.56	3.85	-2.1
W-15B	11/10/2011	7.10	3.07	28.3
W-15B	2/2/2012	8.17	2.31	-69.2
W-15B	5/2/2012	8.00	3.41	-11.0
W-15B	8/20/2012	8.10	5.08	64.6
W-15B	10/30/2012	8.21	2.80	123.6
W-15B	1/23/2013	7.75	2.74	135.0
W-15B	4/2/2013	8.16	1.88	-109.8
W-15C	12/14/2009	7.16	7.18	-53.0
W-15C	3/2/2010	7.33	2.27	148.0
W-15C	5/11/2010	8.16	4.73	-21.0
W-15C	8/3/2010	7.60	2.72	108.0
W-15C	11/2/2010	7.55	2.40	62.0
W-15C	2/1/2011	7.81	4.58	123.7
W-15C	4/5/2011	7.92	2.85	109.0
W-15C	8/23/2011	7.54	4.32	-2.4
W-15C	11/8/2011	7.32	6.00	119.4
W-15C	1/31/2012	8.72	3.11	-60.3
W-15C	5/2/2012	8.00	3.50	6.0
W-15C	8/21/2012	8.12	2.90	125.7
W-15C	10/30/2012	8.13	2.55	99.3
W-15C	1/23/2013	7.82	3.12	135.8
W-15C	4/2/2013	7.93	2.16	-107.1

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16A	12/16/2009	7.62	6.90	-62.0
W-16A	3/5/2010	7.03	3.47	-5.0
W-16A	5/14/2010	8.28	2.23	-54.0
W-16A	8/9/2010	7.98	2.65	106.0
W-16A	11/5/2010	8.03	6.15	48.0
W-16A	2/7/2011	7.82	4.09	249.0
W-16A	4/18/2011	7.88	4.00	94.9
W-16A	8/26/2011	7.73	4.11	-73.4
W-16A	11/8/2011	7.07	4.36	77.6
W-16A	2/3/2012	8.49	3.67	-70.0
W-16A	5/3/2012	7.86	4.09	50.0
W-16A	8/22/2012	7.77	2.47	-77.5
W-16A	10/31/2012	8.15	4.03	113.1
W-16A	1/24/2013	7.77	3.30	64.6
W-16A	4/3/2013	7.80	2.83	-59.6
W-16B	12/16/2009	8.23	7.61	-184
W-16B	3/8/2010	8.15	3.20	-236
W-16B	5/14/2010	8.62	0.77	-310
W-16B	8/9/2010	8.01	2.88	-217
W-16B	11/5/2010	8.30	2.68	-119
W-16B	2/7/2011	8.12	3.54	-297
W-16B	4/18/2011	8.47	2.56	-247
W-16B	8/26/2011	8.01	2.72	-217.4
W-16B	11/8/2011	6.89	8.68	-63.8
W-16B	2/3/2012	9.21	2.55	-206.7
W-16B	5/3/2012	8.74	3.06	-194.3
W-16B	8/22/2012	8.62	2.90	-200.0
W-16B	10/31/2012	8.62	3.88	-189.5
W-16B	1/24/2013	7.96	2.53	-184.5
W-16B	4/3/2013	8.45	2.10	-198.3
W-16C	12/16/2009	8.15	7.12	-206
W-16C	3/8/2010	8.33	3.64	-237
W-16C	5/14/2010	8.68	NM	-295
W-16C	8/9/2010	8.02	2.57	-165
W-16C	11/5/2010	8.24	2.37	-72
W-16C	2/7/2011	8.03	4.34	-285
W-16C	4/18/2011	8.55	2.88	-249.5
W-16C	8/26/2011	7.81	2.71	-223.2
W-16C	11/9/2011	7.57	6.94	-185

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16C	2/3/2012	8.84	2.51	-253.2
W-16C	5/3/2012	8.52	3.00	-205.8
W-16C	8/22/2012	8.30	2.60	-138.7
W-16C	10/31/2012	8.25	2.93	-185.2
W-16C	1/24/2013	8.05	3.20	-160.6
W-16C	4/3/2013	8.03	2.42	-169.2
W-17A	12/18/2009	8.02	7.10	30
W-17A	3/3/2010	6.67	5.41	74
W-17A	5/12/2010	8.25	0.88	-40
W-17A	8/4/2010	7.78	2.35	62
W-17A	11/3/2010	8.17	2.95	76
W-17A	2/2/2011	8.36	5.96	349
W-17A	4/20/2011	7.85	3.51	-5.8
W-17A	8/24/2011	7.85	3.23	2.6
W-17A	11/9/2011	7.19	4.78	-13
W-17A	2/7/2012	8.46	2.87	-20
W-17A	5/4/2012	8.20	3.45	-43.8
W-17A	8/23/2012	8.12	2.36	20.5
W-17A	11/1/2012	8.28	3.09	78.2
W-17A	1/25/2013	8.06	2.41	97.9
W-17A	4/9/2013	7.94	2.67	-27.8
W-17B	12/18/2009	8.49	7.18	-173
W-17B	3/3/2010	7.87	4.80	-197
W-17B	5/12/2010	8.35	NM	-313
W-17B	8/5/2010	7.96	2.31	-189
W-17B	11/3/2010	8.09	2.56	-25
W-17B	2/2/2011	8.43	3.45	-269
W-17B	4/20/2011	8.11	3.32	-168.5
W-17B	8/24/2011	7.88	3.41	-153.7
W-17B	11/9/2011	7.52	2.94	-136.4
W-17B	2/7/2012	8.65	2.50	-174.3
W-17B	5/4/2012	8.40	2.87	-118.7
W-17B	8/23/2012	8.25	2.13	-156.5
W-17B	11/1/2012	8.45	2.35	-97.2
W-17B	1/25/2013	8.14	2.81	-35.2
W-17B	4/9/2013	8.12	2.69	-155.6
W-17C	12/18/2009	8.79	8.74	-177
W-17C	3/4/2010	7.96	5.90	-209
W-17C	5/12/2010	8.49	3.03	-322

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-17C	8/5/2010	8.01	2.64	-167
W-17C	11/3/2010	8.16	2.79	-120
W-17C	2/2/2011	8.47	3.96	-301
W-17C	4/20/2011	8.26	2.08	-223.7
W-17C	8/24/2011	7.94	3.12	-201.7
W-17C	11/9/2011	7.43	3.36	-159.7
W-17C	2/7/2012	8.80	2.73	-226.4
W-17C	5/4/2012	8.50	2.56	-168.5
W-17C	8/23/2012	8.39	2.39	-177.5
W-17C	11/1/2012	8.48	2.87	-151.4
W-17C	1/25/2013	8.20	3.62	-166.8
W-17C	4/9/2013	8.25	2.36	-157.4
EW-1	2/3/2011	7.90	6.61	-258
EW-1	4/13/2011	8.15	2.86	-210
EW-1	8/29/2011	7.62	2.74	-293
EW-1	11/16/2011	(FPPH)	(FPPH)	(FPPH)
EW-1	2/6/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	5/7/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	8/24/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	11/13/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	1/29/2013	(FPPH)	(FPPH)	(FPPH)
EW-1	4/10/2013	(FPPH)	(FPPH)	(FPPH)
MW-701	2/4/2011	6.09	NM	NM
MW-701	4/11/2011	7.60	3.67	180.6
MW-701	8/30/2011	7.50	3.98	-31.2
MW-701	11/16/2011	6.90	2.93	25.9
MW-701	2/1/2012	8.18	4.3	-58.5
MW-701	5/11/2012	7.89	3.45	-8.8
MW-701	8/31/2012	7.97	4.00	28.7
MW-701	11/13/2012	7.88	3.00	161.0
MW-701	2/4/2013	7.84	4.20	120.5
MW-701	4/10/2013	7.84	3.55	36.6
MW-702	2/4/2011	6.04	NM	NM
MW-702	4/12/2011	7.70	3.29	103.1
MW-702	8/30/2011	7.34	3.23	-155.3
MW-702	11/16/2011	7.07	2.67	-172.7
MW-702	2/9/2012	7.89	4.73	-60.7
MW-702	5/11/2012	7.77	3.14	-99.9
MW-702	8/31/2012	7.76	3.48	-92.8

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-702	11/13/2012	7.74	2.77	-116.3
MW-702	2/4/2013	7.60	3.34	-28.4
MW-702	4/10/2013	7.55	3.26	-26.9
MW-703	2/4/2011	6.25	NM	NM
MW-703	4/12/2011	7.57	3.53	132.4
MW-703	8/30/2011	7.30	4.2	-87.1
MW-703	11/17/2011	6.92	2.77	-98
MW-703	2/14/2012	8.11	4.07	-26.3
MW-703	5/11/2012	7.85	3.13	-72.6
MW-703	8/31/2012	7.68	3.20	-21.3
MW-703	11/14/2012	NM	NM	NM
MW-703	2/4/2013	7.75	3.50	122.6
MW-703	4/10/2013	7.87	3.75	-54.2
MW-704	2/9/2011	6.08	NM	NM
MW-704	4/13/2011	7.46	4.60	134.6
MW-704	8/31/2011	7.40	4.02	99.4
MW-704	11/17/2011	6.93	2.51	-148.8
MW-704	2/14/2012	7.80	4.2	-31.6
MW-704	5/14/2012	7.60	5.25	-30.0
MW-704	9/4/2012	7.87	2.85	31.7
MW-704	11/14/2012	NM	NM	NM
MW-704	2/5/2013	7.57	4.83	71.3
MW-704	4/15/2013	7.72	3.28	25.6
MW-705	2/4/2011	6.01	NM	NM
MW-705	4/12/2011	7.79	3.40	127.6
MW-705	8/31/2011	7.78	3.7	-55.5
MW-705	11/17/2011	7.04	3.16	-130.7
MW-705	2/14/2012	8.12	4.09	-57.6
MW-705	5/14/2012	7.88	2.50	-65.0
MW-705	9/4/2012	7.80	3.47	-28.4
MW-705	11/14/2012	NM	NM	NM
MW-705	2/5/2013	7.77	3.82	-46.8
MW-705	4/10/2013	7.73	2.78	21.8
MW-706	2/4/2011	6.21	NM	NM
MW-706	4/11/2011	7.99	4.02	158.7
MW-706	8/31/2011	7.76	3.03	-41.2
MW-706	11/18/2011	6.93	3.06	180.8
MW-706	2/14/2012	8.16	3.00	-52.7
MW-706	5/14/2012	7.87	2.77	-63.5

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-706	9/4/2012	7.84	3.24	18.2
MW-706	11/15/2012	8.04	3.31	-26.4
MW-706	2/5/2013	7.87	3.96	96.5
MW-706	4/15/2013	8.23	2.36	18.8
MW-707	2/4/2011	6.22	NM	NM
MW-707	4/8/2011	7.89	3.24	51.9
MW-707	9/1/2011	7.30	3.73	-9.4
MW-707	11/18/2011	6.89	2.8	11.3
MW-707	2/1/2012	8.19	3.1	-147
MW-707	5/15/2012	7.75	2.50	-72.6
MW-707	9/4/2012	7.55	3.26	-44.5
MW-707	11/15/2012	7.64	2.13	-88.8
MW-707	2/5/2013	7.62	3.58	13.1
MW-707	4/8/2013	7.67	3.23	-25.7
MW-708	2/4/2011	5.99	NM	NM
MW-708	4/6/2011	7.84	3.03	-119.8
MW-708	9/1/2011	7.51	3.45	-147.2
MW-708	11/18/2011	7.00	3.56	-161.3
MW-708	2/10/2012	8.09	2.75	-140.2
MW-708	5/15/2012	7.79	2.36	-136.1
MW-708	9/5/2012	7.78	2.39	-113.1
MW-708	11/16/2012	7.90	2.50	-133.6
MW-708	2/11/2013	7.62	3.47	-110.6
MW-708	4/11/2013	7.56	3.72	-28.5
MW-709	2/4/2011	6.27	NM	NM
MW-709	4/6/2011	8.08	3.74	149.6
MW-709	9/1/2011	7.38	2.97	-37
MW-709	11/21/2011	6.76	2.97	148.5
MW-709	2/10/2012	8.08	2.61	-57.1
MW-709	5/16/2012	7.70	3.12	9.3
MW-709	9/5/2012	7.82	2.07	-113.1
MW-709	11/16/2012	8.00	2.13	-78.2
MW-709	2/11/2013	7.61	3.00	59.4
MW-709	4/11/2013	7.76	2.62	88.1
MW-710	2/8/2011	6.18	NM	NM
MW-710	4/7/2011	7.88	3.54	97.7
MW-710	9/2/2011	6.87	3.68	-10.2
MW-710	11/21/2011	6.81	2.86	255.6
MW-710	2/1/2012	8.47	3.45	-64.8

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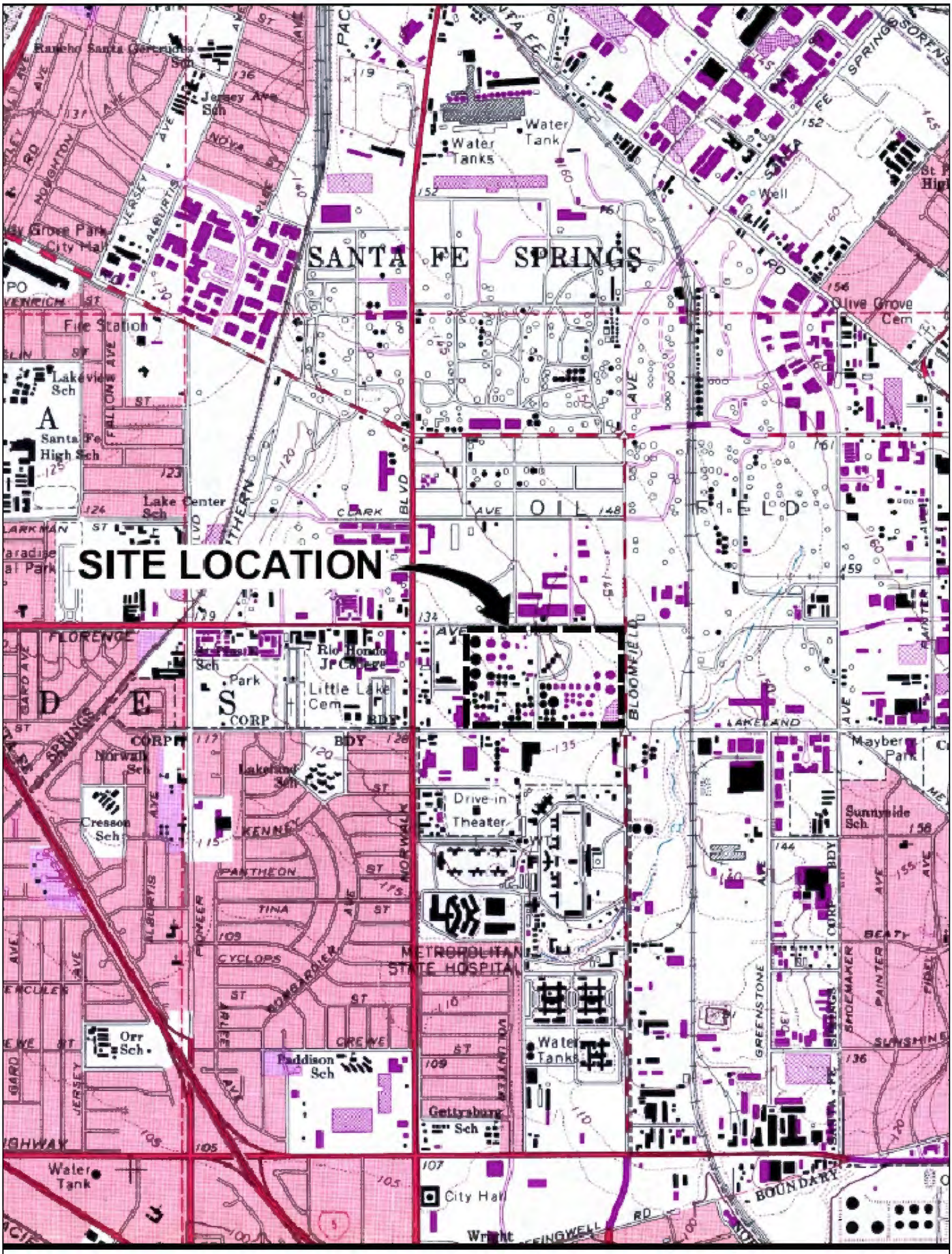
Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-710	5/16/2012	7.80	4.04	21.5
MW-710	9/5/2012	7.85	2.32	30.5
MW-710	11/16/2012	7.97	3.57	43.4
MW-710	2/11/2013	7.63	3.13	94.0
MW-710	4/12/2013	7.77	2.66	62.3
MW-711	2/8/2011	5.99	NM	NM
MW-711	4/6/2011	7.91	3.39	-59.2
MW-711	9/2/2011	7.06	3.54	-99.8
MW-711	11/21/2011	6.87	2.95	-133.6
MW-711	2/10/2012	8.04	3.45	-96.7
MW-711	5/16/2012	7.73	2.37	-73.0
MW-711	9/5/2012	7.76	2.04	-175.4
MW-711	11/16/2012	7.77	2.66	-59.8
MW-711	2/11/2013	7.58	3.88	-66.4
MW-711	4/12/2013	7.67	2.32	-54.3
MW-712	2/7/2011	6.03	NM	NM
MW-712	4/7/2011	7.74	3.08	21.7
MW-712	9/2/2011	7.10	2.68	-59.7
MW-712	11/21/2011	6.90	2.65	-90.4
MW-712	2/13/2012	7.90	3.88	-83.5
MW-712	5/17/2012	7.71	2.80	-13.3
MW-712	9/6/2012	7.68	1.87	-42.0
MW-712	11/19/2012	7.83	2.26	-50.0
MW-712	2/12/2013	7.52	4.23	-5.3
MW-712	4/12/2013	7.59	2.21	-17.9
MW-713	2/7/2011	6.13	NM	NM
MW-713	4/8/2011	7.95	3.84	99.5
MW-713	9/2/2011	7.20	3.13	-51.4
MW-713	11/22/2011	6.98	3.07	-28.7
MW-713	2/13/2012	7.97	3.65	-77.7
MW-713	5/17/2012	7.70	3.11	-13.1
MW-713	9/6/2012	7.62	2.16	-120.7
MW-713	11/19/2012	7.79	2.72	-139.5
MW-713	2/12/2013	7.52	3.73	-101.8
MW-713	4/11/2013	7.66	2.95	-122.9
MW-714	2/8/2011	6.20	NM	NM
MW-714	4/7/2011	7.92	3.53	33.6
MW-714	9/2/2011	7.21	3.15	-63.4
MW-714	11/22/2011	6.96	2.77	-24.2

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
2Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-714	2/13/2012	8.05	4.32	-70.5
MW-714	5/17/2012	4.60	3.00	-10.7
MW-714	9/6/2012	7.66	2.58	-50.0
MW-714	11/19/2012	7.81	3.04	-98.7
MW-714	2/12/2013	7.58	4.77	-24.7
MW-714	4/11/2013	7.75	3.05	-54.3
MW-715	2/14/2011	7.50	NM	NM
MW-715	4/8/2011	7.78	2.59	16.3
MW-715	9/2/2011	7.15	3.2	-89.8
MW-715	11/22/2011	6.90	2.73	-125.4
MW-715	2/1/2012	8.32	2.87	-174.2
MW-715	5/17/2012	4.20	2.58	-50.5
MW-715	9/6/2012	7.66	1.97	-98.9
MW-715	11/19/2012	7.85	3.62	-134.5
MW-715	2/12/2013	7.65	3.75	-135.3
MW-715	4/12/2013	7.81	2.58	-124.9

Notes:

DO	dissolved oxygen
mg/L	milligram(s) per liter
mV	millivolts
ORP	oxidation-reduction potential
SU	standard units
NM	Not Measured



SOURCE OF BASE MAP

U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981

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W E

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FORMER POWERINE REFINERY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP

MUREX environmental, inc

FIGURE 1

DRAWN BY: RLM REVISION DATE: 5/15/12 REVISED BY: BER

SCALE: NOT TO SCALE

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

Appendix A

Table 2- Groundwater Level Measurements
FS & AW

Well ID	Date 3.29.2013 2Q2013	Total Depth (feet BTOC)	Depth to Groundwater (feet BTOC)	Depth To FPPH FPPH (feet BTOC)	FPPH Thickness (feet)	Top of Casing Elevation (feet msl)	Groundwater Elevation (feet msl)	1Q2012
EW-1	FP	113	106.62	105.74	0	144.78		**105.72** / 107.52
MW-101		90.72	—	NA	0	135.23		DRY
MW-103		94.7	—	NA	0	136.95		DRY
MW-104A	3-29-13	100.08	92.84	NA	0	143.39		93.42
MW-105		100.47	—	NA	0	138.63		DRY
MW-106A		110	104.24	NA	0	152.51		105.78
MW-107A		109.49	104.03	NA	0	146.71		104.67
MW-201		101.6	—	NA	0	132.91		DRY
MW-202		92.55	—	NA	0	137.89		DRY
MW-203		102.3	—	NA	0	143.43		DRY
MW-204		103.1	—	NA	0	142.18		DRY
MW-205		98.27	—	NA	0	138.04		DRY
MW-501A		93.27	—	NA	0	128.7		DRY
MW-502		100.59	—	NA	0	128.3		DRY
MW-503B		108.67	101.60		0	129.96		100.31
MW-504		95.76	—	NA	0	134.51		DRY
MW-600A		92.7	—	NA	0	120.34		DRY
MW-601A		89.9	—	NA	0	126.53		DRY
MW-603		97.6	—	NA	0	118.54		DRY
MW-604		103.2	—	NA	0	138.16		DRY
MW-605		93.98	—	NA	0	114.54		DRY
MW-606		99.05	—	NA	0	113.89		DRY
MW-607		107.05	—	NA	0	126.03		DRY
W-1		129.61	109.21	NA	0	142.89		109.91
W-10		110.21	97.98	NA	0	139.99		97.63
W-11		112.61	98.97		0	141.29		98.90
W-12		116.1	103.66	NA	0	144.42		103.39
W-14 A		112	94.98	NA	0	114.71		92.37
W-14 B		167	93.69	NA	0	114.79		90.35
W-14 C		195	93.91	NA	0	114.8		90.60
W-15 A	FP	125.7	113.59	111.08 ~~NA~~	0	127.6		110.40
W-15 B		155.6	111.53	NA	0	127.62		110.11
W-15 C		197.34	111.85	NA	0	127.62		109.77
W-16 A		123.12	112.37	NA	0	147.61		113.40
W-16 B		160.25	117.92	NA	0	147.68		109.46
W-16 C		196.3	117.70	NA	0	147.67		109.12
W-17 A		108.3	97.25	NA	0	141.37		96.96
W-17 B		169.6	107.01	NA	0	141.34		98.15
W-17 C		200	107.08	NA	0	141.34		98.19
W-3A		111.73	—	NA		124		DRY
W-4		129.71	110.43	NA	0	142.38		111.13
W-7		NM	93.10	NA	0	NM		83.12
W-8		NM	71.20	NA	0	NM		67.75
W-9		110.37	90.93	NA	0	139.12		92.58
MW-701		130	99.91	NA	0			98.85
MW-702		130	99.52	NA	0			98.74
MW-703		130	101.17	NA	0			100.23
MW-704		130	102.90	NA	0			102.11
MW-705		130	103.90	NA	0			103.39
MW-706		130	100.98	NA	0			100.00
MW-707		130	98.46	NA	0			96.96
MW-708	FP	130	97.82	97.55	0			96.46 (no FP)
MW-709		130	101.65	NA	0			109.88
MW-710		130	96.25	NA	0			93.67
MW-711		130	103.00	NA	0			101.00
MW-712		130	99.95	NA	0			98.70
MW-713		130	105.59	NA	0			104.90
MW-714		142	106.18	NA	0			104.52
MW-715		134	97.98	NA	0			96.06

GROUNDWATER SAMPLING LOG

PROJECT NAME:	**CENCO**
PROJECT NO.:	**1003-001-300**
DATE:	**2Q2013** 4-10-13

WELL NO. **EW-1** Walker

SAMPLED BY: Frane Sosic

WELL NOTES: **FPPH + strong vapors**

WELL CONDITION.

OK

WEATHER CONDITIONS:

Clear/sunny/light breeze (~72°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	113.00	(ft.)
DEPTH TO WATER		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS	106.62 (DTW) − 105.74 (DTFP) =	(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
					–			–			
			* FPPH *		–			–			
					–			–			

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES: Top-down FPPH skim
1	4-10-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	No GW parameter measurements taken due to free product. 50 gals purged total, of which ~13 gal is heavy black colored FP of low viscosity.
1	1000	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3} 4" well = 0.66 Gal./Foot 2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-3-13

WELL NO. **W-1** Walker
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION: OK

WEATHER CONDITIONS: Mostly sunny w/ light breeze (~80°F)
PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	129.61		(ft.)
DEPTH TO WATER	109.21		(ft.)
HEIGHT OF WATER COLUMN	20.40		(ft.)
CASING VOLUME*	Hgt. x ~~0.163~~ Gal./Ft. =	13.464	(gal)
PURGE VOLUME	0.66 x 3 =	40.392	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP mV	Color	Odor
1456	5	VAC TRUCK	8.12	2.601	–	3.73	24.21	1.690	-99.3	Clear	Strong
1459	10	↓	8.10	2.609	–	3.48	24.47	1.696	-101.5	Clear	Strong
1502	15	↓	8.13	2.613	–	3.69	24.24	1.697	-100.6	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-3-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1548	ice	8015M - TPH-g	VOAs	3	HCL

NOTES: Tip for air-line hose fitting is missing so we cannot use air assist to purge. Will try to purge w/o it.

LL_WI_040313 @ 15:48

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-3-13 (2Q2013)

WELL NO. W-1

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS (g/L)	ORP mV	Color	Odor
1506	20	VACUUM	8.05	2.609	--	3.23	24.28	1.696	-104.3	Clear	Mild
1512	30	TRUCK	8.00	2.608	--	3.45	24.53	1.695	-97.8	Clear	Strong
1520	40	↓	8.06	2.607	--	3.57	24.37	1.694	-96.5	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-8-13

WELL NO. **W-4** Walker
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION:
OK

WEATHER CONDITIONS:
Cloudy and cool (~63°F) AM
Clear/sunny/gusty winds (~73°F) PM

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	129.71	(ft.)
DEPTH TO WATER	110.43	(ft.)
HEIGHT OF WATER COLUMN	19.28	(ft.)
CASING VOLUME*	Hgt. x ~~0.163~~ Gal./Ft. = 12.7248	(gal)
PURGE VOLUME	0.66 x 3 = 38.1744	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
9:29	5	VAC TRUCK	8.08	2.307	--	2.76	21.91	1.498	-59.6	Grey	Mild
9:35	10		8.12	2.280	--	2.78	21.02	1.482	-66.9	Grey	Mild
9:49	15		7.95	2.262	--	3.01	20.25	1.470	-61.1	Lite grey	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	9-8-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1200	ice	8015M - TPH-g	VOAs	3	HCL
			* 337 4230			

NOTES:
Purge slowed down significantly after 10 gal.
W-4 went dry @ 23 gals. Allowed to re-charge prior to sampling:
LL_W4_040813 @ 12:00
* Stinger needed repairs *

ADDITIONAL INFORMATION:
TOC = Top of well casing B&A (877) 366-1121
*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3} PayPal (855) 221-1161

(4" well) = 0.66 Gal./Foot 2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-8-13 (20 2013)

WELL NO. W-4

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1027	20	VACUUM	7.91	2.284	--	3.97	18.28	1.484	-45.8	Lite grey	Mild
	* ~~25~~	TRUCK			--			--			
	~~30~~	"			--			--			
	~~35~~	"			--			--			
	~~40~~	"			--			--			
					--			--			
	* Well went dry *				--			--			
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-4-13

WELL NO. **W-7** Lakeland
SAMPLED BY: Frane Sosic

WELL NOTES: No purge well (sample in any order)
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
Hazey + humid (~75°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	~ 18"	(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-3-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_W7_040413 @ 11:13
1	11:13	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-4-13

WELL NO. **W-8** Lakeland
SAMPLED BY: Frane Sosic

WELL NOTES: No purge well (sample in any order)
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
Hazey + humid (~77°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	~18"	(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-4-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_W8_040413 @ 11:43
1	1143	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3} 4" well = 0.66 Gal./Foot 2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-5-13

WELL NO. **W-9** Lakeland
SAMPLED BY: Frane Sosic

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	110.00	(ft.)
DEPTH TO WATER	90.93	(ft.)
HEIGHT OF WATER COLUMN	19.07	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 3.10841	(gal)
PURGE VOLUME	x 3 = 9.32523	(gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION:
NOT GOOD

WEATHER CONDITIONS:
Scattered clouds w/ slight wind (~68°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP mV	Color	Odor
926	3	VAC TRUCK	7.99	2.772	—	3.94	22.01	1.802	-76.9	Rusty flakes	Mild
936	6		7.68	2.797	—	2.47	21.96	1.819	-78.7	Cloudy	Slight
949	9		7.72	2.789	—	2.81	20.93	1.810	-93.6	Clear	Slight

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-5-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_W9_040513 @ 10.12
1	12:12	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3} 4" well = 0.66 Gal./Foot 2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-1-2013

WELL NO. **W-10** Lakeland
SAMPLED BY: Frane Sosic

WELL NOTES: Slow recharge: purge 1 day prior to sample collection
WELL CONDITION: OK

WEATHER CONDITIONS: Mostly sunny w/light breeze (~75°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	110.00		(ft.)
DEPTH TO WATER	97.98		(ft.)
HEIGHT OF WATER COLUMN	12.02		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	1.95926	(gal)
PURGE VOLUME	x 3 =	5.87778	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
			* VOLUME*								

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-1-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	*NO PARAMETERS TAKEN DUE TO LACK OF GW VOLUME FOR READING* W-10 went dry ~ 2 gallons. LL_W10_040113 @
1		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-5-13

WELL NO. **W-11** Lakeland
SAMPLED BY: Frane Sosic

WELL NOTES: Historically contained FPPH
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
Mostly sunny w/some clouds + light wind (~74°F)
PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	113.00	(ft.)
DEPTH TO WATER	98.97	(ft.)
HEIGHT OF WATER COLUMN	14.03	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.28689	(gal)
PURGE VOLUME	x 3 = 6.86067	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1357	5	VAC TRUCK	7.77	1.991	—	2.01	23.85	1.290	300 to -52.6	lt. grey	Strong
1411	10	|	7.84	1.978	—	1.90	23.15	1.287	-65.6	Cloudy	Strong
1433	15	|	7.81	1.991	—	2.36	22.78	1.294	-69.2	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-5-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_W11_040513 @ 15:00
1	15:00	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3} 4" well = 0.66 Gal./Foot 2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-2-2013

WELL NO. **W-12** Lakeland
SAMPLED BY: Frane Sosic

WELL NOTES: ~~May Be Dry~~
WELL CONDITION: GOOD

WEATHER CONDITIONS: Mostly sunny w/ light breeze (~76°F)
PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	116.00		(ft.)
DEPTH TO WATER	103.66		(ft.)
HEIGHT OF WATER COLUMN	12.34		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	2.01142	(gal)
PURGE VOLUME	x 3 =	6.03426	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F) (C)	TDS g/L	ORP mV	Color	Odor
1510	5	VAC TRUCK	7.77	2.117	/	2.46	24.52	1.373	-72.3	Lite grey	Strong
1518	10	"	7.81	2.159	/	1.83	24.41	1.402	-97.4	Cloudy	Mild
1530	15	"	7.83	2.122	/	1.74	24.63	1.380	-98.7	Cloudy	Mild

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4.2.13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_W12_040213 @ 1600
1	1600	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-1-2013

WELL NO. **MW-14A** Hospital
SAMPLED BY: Frane Sosic

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	112.00	(ft.)
DEPTH TO WATER	94.78	(ft.)
HEIGHT OF WATER COLUMN	17.22	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.8086	(gal)
PURGE VOLUME	x 3 = 8.4258	(gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Overcast (~ 60°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1100	5	VACUUM	8.27	1.605	/	3.37	22.3	1.047	-156.3	Cloudy	None
1107	10	TRUCK	8.35	1.623	/	2.98	21.91	1.055	-168.2	Clear	None

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-1-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_14A_040113 @ 10:45
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
1	10:45	ice	8015 - Methane	VOAs	3	NONE	
1	-"-	ice	Total Alkalinity	250 ml poly	1	NONE	
1	-"-	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1	-"-	ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4.1.2013

WELL NO. **MW-14B** Hospital
SAMPLED BY: Frane Sosic

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	165.00		(ft.)
DEPTH TO WATER	93.69		(ft.)
HEIGHT OF WATER COLUMN	71.31		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	11.62353	(gal)
PURGE VOLUME	x 3 =	34.87059	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Scattered clouds / Light breeze (~70F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µ(s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1114	5	VACUUM	8.42	1.638	—	3.81	19.97	1.064	-199.0	Clear	Slight
1142	10	TRUCK	8.31	1.624	—	2.77	20.36	1.056	-201.3	Clear	Slight
1210	15	1	8.30	1.616	—	3.14	19.82	1.050	-200.7	Clear	Slight
1240	20	1	8.28	1.605	—	2.90	21.11	1.043	-203.6	Clear	Slight

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4.1.13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1248	ice	8015M - TPH-g	VOAs	3	HCL

NOTES: Very slow purging well

LL_14B_040113 @ 12:48

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-1-2013

WELL NO. **MW-14C** Hospital
SAMPLED BY: Frane Sosic

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	195.00		(ft.)
DEPTH TO WATER	93.91		(ft.)
HEIGHT OF WATER COLUMN	101.09		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	16.47767	(gal)
PURGE VOLUME	x 3 =	49.43301	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Scattered clouds / light breeze (~75F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP	Color	Odor
1256	5	VACUUM	8.36	1.633	/	7.62	25.00	1.113	-211.4	Cloudy	Slight
1320	10	TRUCK	8.25	1.620	/	5.41	24.82	1.086	-196.5	Cloudy	Slight
1337	15	↓	8.21	1.612	/	3.60	24.15	1.067	-189.2	Cloudy	Slight

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-1-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_14C_040113 @ 15:56
1		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-1-2013 (2Q2013)

WELL NO. 14-C

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1348	20	VAC TRUCK	8.23	1.620	--	3.40	24.23	1.062	-192.4	Cloudy	Slight
1400	25		8.22	1.617	--	3.23	24.39	1.059	-190.1	Cloudy	None
1414	30		8.21	1.614	--	3.11	24.44	1.055	-187.8	Clear	None
1426	35		8.20	1.616	--	2.99	24.30	1.050	-186.3	Clear	None
1437	40		8.26	1.616	--	2.78	23.35	1.049	-189.6	Clear	None
1452	45		8.22	1.607	--	2.60	23.30	1.046	-183.7	Clear	None
1516	50		8.22	1.602	--	2.63	23.88	1.041	-181.5	Clear	None
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-2-2013

WELL NO. **MW-15A** Hospital
SAMPLED BY: Frane Sosic

Well Notes: **Contains feet of FPPH**
WELL CONDITION:
OK

WEATHER CONDITIONS:
Cloudy w/ light wind (~60°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	125.00	(ft.)
DEPTH TO ~~WATER~~ FPPH	111.08	(ft.)
HEIGHT OF WATER COLUMN	13.92	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.26896	(gal)
PURGE VOLUME	x 3 = 6.80	(gal)
PRODUCT THICKNESS	113.59(DTW) − 111.08(FP) = 2.51 ON 3/29/13	ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
			* FPPH *								

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-2-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	@	ice	8015M - TPH-g	VOAs	3	HCL
1	11:29	ice	8015 - Methane	VOAs	3	NONE
1	-11-	ice	Total Alkalinity	250 ml poly	1	NONE
1	-11-	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE
1	-11-	ice	Ferrous Iron	250 ml poly	1	HNO_3

NOTES: * NO PARAMETERS TAKEN DUE TO FREE PRODUCT *

* FPPH skim until we achieve steady GW flow: 15' of stinger removed initially then stinger is lowered slowly to fluid level. Approx. 60 gal purged total: ~25 pure transported brown FPPH ~5 gal. of emulsified layer and ~30 gal. of GW.

LL_15A_040213 @ 11:29

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3} 4" well = 0.66 Gal./Foot 2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-2-2013

WELL NO. **MW-15B** Hospital
SAMPLED BY: Frane Sosic

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	156.00		(ft.)
DEPTH TO WATER	111.53		(ft.)
HEIGHT OF WATER COLUMN	44.47		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	7.24861	(gal)
PURGE VOLUME	x 3 =	21.74583	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Mostly sunny w/light breeze (~73F)

PURGING AND SAMPLING EQUIPMENT:
YSI SS6
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1203	5	VACUUM	8.40	2.099	—	2.38	21.61	1.366	-89.6	Lite gray	Strong
1215	10	TRUCK	8.26	2.090	—	1.90	21.36	1.345	-104.7	Olive green	Strong
1222	15	1	8.21	2.071	—	1.83	21.66	1.347	-109.5	Olive grey	Strong
1231	22	1	8.16	2.088	—	1.88	22.45	1.357	-109.8	Grey	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-2-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_15B_040213 @ 12:44
1	1244	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-2-13

WELL NO. **MW-15C** Hospital
SAMPLED BY: Frane Sosic

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	198.00		(ft.)
DEPTH TO WATER	111.53		(ft.)
HEIGHT OF WATER COLUMN	86.47		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	14.09461	(gal)
PURGE VOLUME	x 3 =	42.28383	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Mostly sunny w/light breeze

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1240	5	VAC TRUCK	8.14	1.959	—	3.21	23.33	1.269	107.6	lite gray	Mild
1250	10	↓	8.05	1.950	—	2.79	24.06	1.260	105.3	lite gray	Mild
1258	15	↓	8.02	1.952	—	2.13	23.10	1.265	102.1	Cloudy	Mild

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-2-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	14:36	ice	8015M - TPH-g	VOAs	3	HCL

NOTES:
Stinger must be raised ~15-18' to purge

LL_15C_040213 @ 14:36

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-2-13 (2/20/13)

WELL NO. 15-C

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1309	20	VACUUM	7.98	1.950	--	1.74	23.44	1.271	-100.7	Clear	Mild
1316	25	TRUCK	8.00	1.953	--	1.88	23.49	1.269	-104.5	Clear	Mild
1327	30	"	7.94	1.939	--	1.80	23.22	1.259	-114.4	Clear	Mild
1336	35	"	7.96	1.936	--	1.97	23.37	1.260	-108.9	Clear	Mild
1348	40	"	7.93	1.940	--	2.22	23.91	1.263	-110.3	Clear	Mild
1400	45	"	7.94	1.941	--	2.14	24.34	1.263	-105.6	Clear	Mild
1415	50	"	7.93	1.935	--	2.16	24.27	1.260	-107.1	Clear	Mild
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-3-13

WELL NO. **MW-16A** Walker
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
Hazy AM & cool (~60°F)
Clears to sunny (~70°F)
PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	23.00		(ft.)
DEPTH TO WATER	12.37		(ft.)
HEIGHT OF WATER COLUMN	10.63		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	1.7329	(gal)
PURGE VOLUME	x 3 =	5.1987	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1015	~3	VACUUM	7.92	2.698	--	3.86	20.96	1.754	-45.7	Olive grey	Mild
1030	6	TRUCK	7.80	2.633	--	2.88	21.58	1.711	-59.6	Olive green	Mild
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Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES: Very slow purging well
1	4.3.13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Vacuum truck has a hose-fitting leak, vacuum @ ~15 Hg"... optimal is ~20" Hg.
1	1047	ice	8015M - TPH-g	VOAs	3	HCL	
							LL_16A_040313 @ 10:47

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-3-13

WELL NO. **MW-16B** Walker
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION:
Good

WEATHER CONDITIONS:
Sunny w/ scattered clouds + light breeze (~ 76°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	160.00		(ft.)
DEPTH TO WATER	117.92		(ft.)
HEIGHT OF WATER COLUMN	42.08		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	6.85904	(gal)
PURGE VOLUME	x 3 =	20.57712	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1105	5		8.51	2.711	--	3.16	22.68	1.762	-140.2	Grey	Strong CH4
1120	10		8.58	2.609	--	3.37	23.53	1.696	-169.5	Cloudy	Strong CH4
1137	15		8.50	2.527	--	2.72	24.00	1.643	-192.4	Lite grey	Strong CH4
1144	20		8.45	2.496	--	2.10	24.35	1.622	-198.3	Cloudy	Strong CH4

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-3-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Initial GW very slow to come up
1	1203	ice	8015M - TPH-g	VOAs	3	HCL	LL_16B_040313 @ 1203

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-3-13

WELL NO. **MW-16C** Walker
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION: GOOD

WEATHER CONDITIONS: Mostly sunny w/ light breeze (~ 77°F)
PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	196.30		(ft.)
DEPTH TO WATER	117.70		(ft.)
HEIGHT OF WATER COLUMN	78.60		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	12.8118	(gal)
PURGE VOLUME	x 3 =	38.4354	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F)(C)	TDS g/L	ORP mV	Color	Odor
1303	5	VACUUM	8.23	1.491	--	2.55	24.98	0.968	-185.4	Dark grey	Strong Chy
1316	10	TRUCK	8.08	1.683	--	2.15	24.77	1.094	-147.9	Olive grey	Strong Chy
1327	15	↓	8.11	1.843	--	2.11	25.12	1.197	-166.3	Lite grey	Strong Chy

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-3-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	@	ice	8015M - TPH-g	VOAs	3	HCL
1	1435	ice	8015 - Methane	VOAs	3	None

NOTES:
Well would not pump at all really. After adjusting the stinger height and trying to get water to purge for quite some time, we ceased the purge to pull out and inspect the stinger in 16C. We found (2) cuts where there should only be (1) to allow uptake that 5' segment was replaced and stinger was re-inserted into the well.

LL_16C_040313 @ 14:35

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}
4" well = 0.66 Gal./Foot
2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-3-2013 (2Q2013)

WELL NO. 16-C

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS (g/L)	ORP mV	Color	Odor !
1338	20	VACUUM	8.07	1.878	--	1.85	25.35	1.220	-152.4	Cloudy	Strong CH_4
1351	25	TRUCK	8.04	1.900	--	2.21	25.66	1.235	-133.5	Cloudy	↓
1403	30	↓	8.03	1.913	--	1.94	25.28	1.242	-136.7	Clearish	↓
1416	35	↓	8.02	1.913	--	2.13	25.00	1.244	-177.8	Clear	↓
1420	38	↓	8.03	1.926	--	2.42	24.89	1.252	-169.2	Clear	Strong CH_4
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K/O tank drained @ 30gal

GROUNDWATER SAMPLING LOG

PROJECT NAME:	**CENCO**	WELL NO.	**W-17A** Lakeland
PROJECT NO.:	**1003-001-300**	SAMPLED BY:	Frane Sosic
DATE:	**2Q2013** 4-9-13		

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	108.30		(ft.)
DEPTH TO WATER	97.25		(ft.)
HEIGHT OF WATER COLUMN	11.05		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	1.8015	(gal)
PURGE VOLUME	x 3 =	5.4045	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Clear/sunny/breezy (~70°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP µV	Color	Odor
1008	5	VAC TRUCK	7.94	2.208	/	2.67	21.60	1.435	-27.8	Grey	Mild

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-9-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	11:11	ice	8015M - TPH-g	VOAs	3	HCL

NOTES: Very slow purge well de-watered; allowed to recharge prior to sample collection:
LL_17A_040913 @ 11:11

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/$ft.^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	2Q2013 4-9-13

WELL NO.	W-17B Lakeland
SAMPLED BY:	Frane Sosic

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	169.60		(ft.)
DEPTH TO WATER	107.01		(ft.)
HEIGHT OF WATER COLUMN	62.59		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	10.2027	(gal)
PURGE VOLUME	x 3 =	30.60651	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION: OK

WEATHER CONDITIONS: Clear/sunny/breezy (~ 73°F)

PURGING AND SAMPLING EQUIPMENT:
YSI S56
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µ S/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP mV	Color	Odor
1143	5	VACTRUCK	8.06	1.623	/	2.63	21.84	1.058	-97.3	Grey	Strong
1209	10	↓	8.19	1.513	/	2.42	22.81	0.981	-105.9	Cloudy	Strong
1223	15	↓	8.11	1.546	/	1.97	24.23	1.005	-146.3	Clear	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES: Very slow purging deep well.
1	4-9-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_17B_040913 @ 1310
1	13:10	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-9-2013 (2Q2013)

WELL NO. 17-B

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1231	20	VAC TRUCK	8.15	1.529	--	2.50	25.50	0.994	-154.7	Clear	Strong
1243	25		8.10	1.534	--	2.06	24.85	0.997	-157.3	Clear	Strong
1255	30		8.12	1.524	--	2.69	25.61	0.991	-155.6	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 2Q2013 4-9-13

WELL NO. W-17C Lakeland
SAMPLED BY: Frane Sosic

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2"		(inches)
DEPTH OF WELL	200.00		(ft.)
DEPTH TO WATER	107.08		(ft.)
HEIGHT OF WATER COLUMN	92.92		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	15.14596	(gal)
PURGE VOLUME	x 3 =	45.43788	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
OK

WEATHER CONDITIONS:
Clear/sunny/breezy (~83°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1315	5	VAC TRUCK	8.33	1.335	—	2.67	23.24	0.868	-156.5	Cloudy	Strong
1327	10	↓	8.30	1.322	—	2.70	23.47	0.858	-159.4	Clear	Strong
1344	15	↓	8.27	1.317	—	2.56	23.71	0.855	-171.2	Clear	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-9-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1612	ice	8015M - TPH-g	VOAs	3	HCL

NOTES:
Very slow purging deep well (TD = 200' bgs)

LL_17C_040913 @ 16:12

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-9-2013 (2Q2013)

WELL NO. 17-C

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS (g/L)	ORP mV	Color	Odor
1400	20	VACUUM	8.32	1.323	--	2.64	23.69	0.858	-169.6	Clear	Strong
1419	25	TRUCK	8.29	1.316	--	2.39	23.62	0.853	-162.3	Clear	Strong
1439	30	|	8.34	1.315	--	3.02	23.90	0.856	-160.7	Cloudy	Strong
1502	35	|	8.29	1.327	--	2.81	23.22	0.862	-148.4	Clear	Strong
1529	40	|	8.29	1.328	--	2.62	23.04	0.863	-155.8	Clear	Strong
1553	45	|	8.25	1.326	--	2.36	22.95	0.864	-157.4	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO	WELL NO.	MW-104A Lakeland
PROJECT NO.:	1003-001-300	SAMPLED BY:	Frane Sosic
DATE:	2Q2013 4-5-13		

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	100.00	(ft.)
DEPTH TO WATER	92.84	(ft.)
HEIGHT OF WATER COLUMN	7.16	(ft.)
CASING VOLUME*	Hgt. x ~~0.163~~ Gal./Ft. = 4.7256	(gal)
PURGE VOLUME	4.66 x 3 = 14.1768	(gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION:
CK - lid will not secure

WEATHER CONDITIONS:
Scattered clouds w/light wind (~67F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
	5										
	10		* PURGED DRY *								
	15										

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-5-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1300	ice	8015M - TPH-g	VOAs	3	HCL

NOTES:
Well 104-A purged dry @ ~ 6 gallons.
No GW parameters could be measured.
Well allowed to re-charge prior to collecting sample:
LL_104A_040513 @ 1300

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

(4" well = 0.66 Gal./Foot) 2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-4-13

WELL NO. **MW-106A** Bloomfield
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION: OK - not great

WEATHER CONDITIONS: Hazy morning (~65°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	110.00		(ft.)
DEPTH TO WATER	104.24		(ft.)
HEIGHT OF WATER COLUMN	5.76		(ft.)
CASING VOLUME*	Hgt. x ~~0.163~~ Gal./Ft. =	3.806	(gal)
PURGE VOLUME	0.66 x 3 =	11.4184	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. uS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5										
	10		* VOLUME *								

* Insufficient volume for gw parameter measurements *

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-4-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1234	ice	8015M - TPH-g	VOAs	3	HCL

8:27 NOTES:
106-A purged dry ~ 4 gal. (similar to previous sampling events.)
Allowed to re-charge prior to sampling.

LL_106A_040413 @ 1234

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

(4" well) = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-4-13

WELL NO. **MW-107A** Bloomfield
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION: VERY GOOD

WEATHER CONDITIONS: Mostly sunny / humid / light breeze (~75°F)
PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	110.00		(ft.)
DEPTH TO WATER	104.03		(ft.)
HEIGHT OF WATER COLUMN	5.97		(ft.)
CASING VOLUME*	Hgt. x ~~0.163~~ Gal./Ft. =	3.7402	(gal)
PURGE VOLUME	0.66 x 3 =	11.8206	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µmhos/cm (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1414	5	VAC TRUCK	8.34	1.913	—	3.01	25.72	1.244	-203.9	Cloudy	Strong HC
1421	10	"	8.30	1.901	—	2.47	26.01	1.235	-210.4	Trans. green	Strong HC
1430	15	"	8.28	1.874	—	2.50	26.40	1.218	-251.8	Trans. green	Strong HC
1438	20	"	8.25	1.898	—	2.25	26.06	1.235	—	Trans. green	Strong HC

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-3-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	1525	ice	8015M - TPH-g	VOAs	3	HCL

NOTES:
VAC TRUCK HAD ISSUES -> pump would not work correctly
Nieto swapped out truck #580 for #506.

LL_107A_040413 @ 15:25

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = r²h(ft) x 7.48 gal/ft.³

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-8-13

WELL NO. **MW-503B** Coaster
SAMPLED BY: Frane Sosic

WELL NOTES:
WELL CONDITION: Not good

WEATHER CONDITIONS: Clear/sunny/gusty wind (~75F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	108.67		(ft.)
DEPTH TO WATER	101.60		(ft.)
HEIGHT OF WATER COLUMN	7.07		(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. =	4.6662	(gal)
PURGE VOLUME	x 3 =	13.9986	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1340	5		7.85	1.876	-	2.30	23.25	1.221	-2.5	Cloudy	Strong
1355	10		7.78	1.826	-	2.23	24.12	1.187	-17.2	Cloudy	Strong
1407	15		7.72	1.812	-	2.46	24.13	1.178	-31.5	Clear	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-8-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_503B_040813_01 @ 1410
1	1410	ice	8015M - TPH-g	VOAs	3	HCL	
2	4-8-13	ice	8260B	VOAs	3	HCl	LL_503B_040813_02 @ 1420
2	1420	ice	8015M	VOAs	3	HCl	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-10-13

WELL NO. **MW-701** Lakeland
SAMPLED BY: Frane Sosic

Well Notes:
WELL CONDITION: Very Good

WEATHER CONDITIONS: Clear / sunny / light breeze (~85°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	99.91	(ft.)
HEIGHT OF WATER COLUMN	30.09	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 19.8594	(gal)
PURGE VOLUME	x 3 = 59.5782	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1312	5	VAC TRUCK	7.89	1.969	/	4.20	24.29	1.280	53.6	Lite grey	Mild
1344	10	↓	7.90	1.964	/	3.65	23.58	1.276	39.5	Lite grey	Slight
1347	15		7.85	1.964	/	3.33	23.66	1.278	36.1	Lite grey	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-10-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_701_041013 @ 14:13
1	1413	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-10-13 (2Q2013)

WELL NO. 701

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS (g/L)	ORP mV	Color	Odor
1349	20	VAC TRUCK	7.86	1.966	--	3.14	23.04	1.274	34.7	Lite grey	Slight
1351	30	"	7.87	1.956	--	3.42	23.39	1.271	36.8	Cloudy	Slight
1354	40	"	7.82	1.971	--	3.26	22.94	1.281	38.9	Clear	Slight
1357	50	"	7.82	1.958	--	3.57	23.70	1.273	35.6	Clear	Slight
1400	60	"	7.84	1.963	--	3.55	23.82	1.276	36.6	Clear	Slight
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GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO	WELL NO.	MW-702 Lakeland
PROJECT NO.:	1003-001-300	SAMPLED BY:	Frane Sosic
DATE:	2Q2013 4-10-13		

Well Notes: Strong H_2S / CH_4 / VOC vapors

WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	130.00		(ft.)
DEPTH TO WATER	99.52		(ft.)
HEIGHT OF WATER COLUMN	30.48		(ft.)
CASING VOLUME*	Hgt. x .66 Gal./Ft. = 20.1168		(gal)
PURGE VOLUME	x 3 = 60.3504		(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F) (C)	TDS g/L	ORP mV	Color	Odor
1452	5	VAC TRUCK	7.84	2.198	—	3.15	26.39	1.427	19.1	Clear	Strong
1453	10	↓	7.77	2.184	—	3.01	25.87	1.420	-18.6	Clear	Strong
1455	15	↓	7.68	2.184	—	2.97	25.99	1.419	-29.7	Clear	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES: Vent well for 4+ hours prior to sampling
1	4-10-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_702_041013 @ 15:42
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
1	1542	ice	8015 - Methane	VOAs	3	NONE	
1	-11-	ice	Total Alkalinity	250 ml poly	1	NONE	
1	-11-	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1	-11-	ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-10-13 (20 2013)

WELL NO. 702

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1457	20	VACUUM	7.63	2.177	--	2.72	26.00	1.415	-27.5	Cloudy	Strong
1500	30	TRUCK	7.65	2.180	--	3.16	26.08	1.416	-32.8	Cloudy	Strong
1504	40	"	7.64	2.179	--	2.96	25.91	1.415	-37.9	Cloudy	Strong
1510	50	"	7.54	2.169	--	2.98	26.00	1.409	-23.6	Clear	Strong
1515	60	"	7.55	2.179	--	3.26	25.94	1.416	-26.9	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-10-13

WELL NO. **MW-703** Lakeland
SAMPLED BY: Frane Sosic

Well Notes: **Strong H2S / LEL / VOC vapors**
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
Clear / sunny / light breeze (~85°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL		130.00	(ft.)
DEPTH TO WATER		101.17	(ft.)
HEIGHT OF WATER COLUMN		28.83	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. =	19.0278	(gal)
PURGE VOLUME	x 3 =	57.0834	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS ppt	ORP mV	Color	Odor
1210	5	VAC TRUCK	7.98	1.944	—	4.35	23.54	1.263	-3.5	Lite grey	Strong
1213	10	↓	7.92	1.949	—	3.63	23.32	1.267	-36.1	Lite grey	Strong
1215	15		7.91	1.951	—	3.15	23.31	1.268	-63.6	Lite grey	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-10-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_703_041013 @ 12:45
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
1	1245	ice	8015 - Methane	VOAs	3	NONE	
1	-11-	ice	Total Alkalinity	250 ml poly	1	NONE	
1	-11-	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1	-11-	ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

(4" well = 0.66 Gal./Foot)

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-10-13 (2Q2013)

WELL NO. 703

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. u(S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1216	20	VACUUM	7.91	1.945	--	3.21	23.37	1.264	-65.3	Cloudy	Strong
1220	30	TRUCK	7.87	1.945	--	3.10	23.32	1.263	-57.4	Cloudy	Strong
1224	40	"	7.86	1.954	--	3.27	23.32	1.267	-57.0	Clear	Strong
1228	50	"	7.83	1.945	--	3.19	23.23	1.265	-61.7	Clear	Strong
1231	60	"	7.87	1.960	--	3.75	23.33	1.270	-54.2	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/15/2013 **2Q2013**

WELL NO. **MW-704** Lakeland
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes: **Strong H2S / LEL / VOC vapors**
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
OVERCAST, COOL

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	102.90	(ft.)
HEIGHT OF WATER COLUMN	27.1	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 17.9	(gal)
PURGE VOLUME	x 3 = 53.7	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1014	5	VAC TRUCK	7.94	2.135	/	2.05	21.13	1.389	-121.7	CLEAR	SLIGHT
1016	10	↓	7.90	2.134	/	2.07	22.41	1.388	-132.7	CLEAR	SLIGHT
1018	15	↓	7.78	2.152	/	2.09	22.59	1.391	-143.6	CLEAR	SLIGHT

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/15/13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-704-041513 @ 1130 VACUUM/RECHARGE VERY SLOW AFTER PURGE 30 GAL. SAMPLED AT PURGE 45 GAL.
1	"	ice	8015M - TPH-g	VOAs	3	HCL	
1	"	ice	8015 - Methane	VOAs	3	NONE	
1	1130	ice	Total Alkalinity	250 ml poly	1	NONE	
1		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1		ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

(4" well = 0.66 Gal./Foot)

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/15/13 (2Q2013)

WELL NO. 704

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS (g/L)	ORP mV	Color	Odor
1021	20	VAC TRUCK	7.88	2.129	--	2.16	22.46	1.385	-127.3	CLOUDY	SLIGHT
1030	30	↓	7.95	2.078	--	2.57	20.87	1.351	+13.9	CLOUDY	SLIGHT
1103	40	↓	7.84	1.877	--	2.64	19.34	1.219	+21.5	CLEAR	SLIGHT
1121	45	↓	7.72	2.043	--	3.28	16.57	1.327	+25.6	CLEAR	SLIGHT
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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 2Q2013 4-10-13

WELL NO. MW-705 Lakeland
SAMPLED BY: Frane Sosic + AW

Well Notes: Strong H2S / LEL / VOC vapors
WELL CONDITION: GOOD

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	103.90	(ft.)
HEIGHT OF WATER COLUMN	26.10	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 17.23	(gal)
PURGE VOLUME	x 3 = 51.68	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F)(C)	TDS g/L	ORP mV	Color	Odor
1602	5	MP TRUCK	7.65	2.060	/	2.67	24.27	1.339	67.2	Cloudy	Strong
1604	10	↓	7.77	2.055	/	3.09	24.62	1.336	58.6	-11-	-11-
1606	20	↓	7.77	2.056	/	2.82	24.57	1.336	47.0	Cloudy	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1	4-10-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL
1	@	ice	8015M - TPH-g	VOAs	3	HCL
1	16:36	ice	8015 - Methane	VOAs	3	NONE
1	-11-	ice	Total Alkalinity	250 ml poly	1	NONE
1	-11-	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE
1	-11-	ice	Ferrous Iron	250 ml poly	1	HNO_3

NOTES: Vent well for 4+ hours prior to sampling

LL_705_041013 @ 16:36

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-10-13 (2Q2013)

WELL NO. 705

SAMPLED BY: Frane Sosic + AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µ(S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1410	30	VAC TRUCK	7.77	2.075	--	2.71	24.53	1.348	21.7	Clear	Strong
1415	40	"	7.74	2.066	--	2.75	24.53	1.343	26.5	Clear	Strong
1419	50	"	7.73	2.074	--	2.78	24.50	1.348	21.8	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 04/15/2013 2Q2013

WELL NO. MW-706 Lakeland
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
OVERCAST, LIGHT RAIN

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	100.48	(ft.)
HEIGHT OF WATER COLUMN	29.52	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 19.5	(gal)
PURGE VOLUME	x 3 = 58.4	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F) (C)	TDS g/L	ORP mV	Color	Odor
0846	5	VAC TRUCK	8.04	2.024		2.72	21.28	1.315	-68.4	CLEAR	STRONG
0848	10	↓	8.05	2.038		2.71	22.82	1.322	-90.7	CLEAR	STRONG
0850	15	↓	8.13	2.035		2.38	22.73	1.322	-107.3	CLEAR	STRONG

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1/2	04/15/13	ice	8260B - VOCs + Oxys	VOAs	3/3	HCL	LL_706_041513_01 @ 0920
1/2	@	ice	8015M - TPH-g	VOAs	3/3	HCL	LL_706_041513_02 @ 0930
1		ice	8015 - Methane	VOAs	3	NONE	
1	0920(1)	ice	Total Alkalinity	250 ml poly	1	NONE	
1	0930(2)	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1		ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

(4" well) = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/15/13 (2Q2013)

WELL NO. 706

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C)	TDS (g/L)	ORP mV	Color	Odor
0852	20	VAC TRUCK	8.15	2.041	--	2.42	22.92	1.327	-127.3	CLEAR	STRONG
0856	30	↓	8.22	2.040	--	2.29	22.06	1.325	-77.2	CLEAR	STRONG
0901	40	↓	8.26	2.006	--	2.56	22.01	1.304	-32.9	CLEAR	STRONG
0907	50	↓	8.26	2.007	--	2.38	21.71	1.302	-19.5	CLEAR	STRONG
0915	60	↓	8.23	1.998	--	2.36	22.04	1.298	+18.8	CLOUDY	STRONG
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: **2Q2013** 4-8-13

WELL NO. **MW-707** Coaster
SAMPLED BY: Frane Sosic

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
Clear/sunny/gusty winds (~75°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	130.00		(ft.)
DEPTH TO WATER	98.46		(ft.)
HEIGHT OF WATER COLUMN	31.54		(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. =	20.8164	(gal)
PURGE VOLUME	x 3 =	62.4492	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1440	5		7.71	1.764	--	5.03	22.92	1.148	-3.5	Lite grey	Strong
1442	10		7.69	1.771	--	3.10	22.84	1.154	-15.8	Lite grey	Strong
1445	15		7.66	1.787	--	2.59	22.60	1.162	-23.6	Lite grey	Strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	4-8-13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_707_040813 @ 1543
1	15:43	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

(4" well) = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 4-8-2013 (2Q2013)

WELL NO. 707

SAMPLED BY: Frane Sosic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. uS/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS (g/L)	ORP mV	Color	Odor
1450	20	VAC TRUCK	7.67	1.792	--	2.77	22.29	1.169	-28.0	Lite grey	Strong
1454	30		7.66	1.803	--	3.01	22.19	1.172	-24.7	Lite grey	Strong
1502	40		7.64	1.778	--	2.91	22.11	1.155	-42.8	Lite grey	Strong
1507	50		7.65	1.783	--	3.11	22.33	1.160	-28.3	Cloudy	Strong
1513	60		7.67	1.779	--	3.23	22.47	1.155	-25.7	Clear	Strong
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/11/2013 **2Q2013**

WELL NO. **MW-708** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes: **May contain FPPH**
WELL CONDITION: GOOD

WEATHER CONDITIONS: WARM, SUNNY

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	130.00		(ft.)
DEPTH TO ~~WATER~~ FPPH	97.55		(ft.)
HEIGHT OF WATER COLUMN	32.45		(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. =	21.4	(gal)
PURGE VOLUME	x 3 =	64.3	(gal)
PRODUCT THICKNESS	97.82 (DTW) − 97.55 (FP) = 0.27 ON 03/29/13		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP MV	Color	Odor
—	5	VACTRUKK	* PARAMETERS NOT TAKEN							GRAY	MODERATE
—	10	↓	DUE TO FPPH (<0.5 GAL)							LT GRAY	SLIGHT
1508	15	↓	7.75	2.063		2.42	23.27	1.340	-23.2	LT. GRAY	SLIGHT

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative
1/2	04/11/13	ice	8260B - VOCs + Oxys	VOAs	3/3	HCL
1/2	@	ice	8015M - TPH-g	VOAs	3/3	HCL
1		ice	8015 - Methane	VOAs	3	NONE
1	1615 (1)	ice	Total Alkalinity	250 ml poly	1	NONE
1	1620 (2)	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE
1		ice	Ferrous Iron	250 ml poly	1	HNO_3

NOTES:
* 30ft of STINGER REMOVED TO SKIM FIRST 10 GAL WATER, THEN LOWERED AND CONTINUED AS NORMAL
LL-708-041113-01 @ 1615
LL-708-041113-02 @ 1620

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

(4" well) = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/11/13 (2Q 2013)

WELL NO. 708

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS (g/L)	ORP mV	Color	Odor
1514	20	VAC TRUCK	7.65	2.069	--	2.36	23.28	1.343	-46.2	LT. GRAY	SLIGHT
1525	30	"	7.62	2.069	--	2.33	23.43	1.344	-55.9	LT GRAY	SLIGHT
1535	40	"	7.59	2.065	--	2.70	23.18	1.342	-48.7	LT. GRAY	SLIGHT
1547	50	"	7.60	2.066	--	2.76	23.23	1.344	-34.8	LT. GRAY	SLIGHT
1600	60	"	7.52	2.061	--	2.86	23.29	1.342	-29.7	LT. GRAY	SLIGHT
1607	65	↓	7.56	2.055	--	3.72	23.49	1.335	-28.5	LT. GRAY	SLIGHT
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/11/2013 **2Q2013**

WELL NO. **MW-709** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
WARM, SUNNY

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	130.00		(ft.)
DEPTH TO WATER	109.65		(ft.)
HEIGHT OF WATER COLUMN	20.35		(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. =	13.4	(gal)
PURGE VOLUME	x 3 =	40.3	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1309	5	VAC TRUCK	7.80	2.207		2.71	22.97	1.435	84.9	CLOUDY	SLIGHT
1312	10	↓	7.76	2.206		2.50	23.45	1.434	59.3	CLOUDY	SLIGHT
1316	15	↓	7.80	2.213		2.61	23.40	1.442	48.3	CLOUDY	SLIGHT

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/11/13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-709-041113 @ 1350
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
	1350						

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/11/13 (2Q 2013)

WELL NO. 709

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS (g/L)	ORP mV	Color	Odor
1319	20	VAC TRUCK	7.76	2.204	--	2.44	23.08	1.434	57.8	CLOUDY	SLIGHT
1329	30	↓	7.82	2.185	--	2.65	23.25	1.420	79.5	CLOUDY	SLIGHT
1343	40	↓	7.76	2.171	--	2.62	23.54	1.408	88.1	CLOUDY	SLIGHT
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/12/2013 **2Q2013**

WELL NO. **MW-710** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
OVERCAST, COOL

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	96.25	(ft.)
HEIGHT OF WATER COLUMN	33.75	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 22.3	(gal)
PURGE VOLUME	x 3 = 66.8	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µ(s/cm)	Turbidity NTUs	DO mg/L	Temperature (F)(C)	TDS g/L	ORP mV	Color	Odor
0901	5	VARIABLE	7.95	1.843	/	2.75	21.35	1.198	66.7	CLOUDY	—
0903	10	↓	7.89	1.844	/	2.71	21.34	1.198	62.5	CLOUDY	—
0905	15	↓	7.83	1.847	/	2.59	21.78	1.200	59.6	CLOUDY	—

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/12/13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_710_041213 @ 0925
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
	0925						

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

(4" well) = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/12/13 (2Q 2013)

WELL NO. 710

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F (C)	TDS (g/L)	ORP mV	Color	Odor
0907	20	VACTRUCK	8.00	1.811	--	2.38	19.08	1.177	50.1	CLOUDY	—
0910	30	↓	7.79	1.842	--	2.52	21.33	1.197	61.3	CLOUDY	—
0913	40	↓	7.79	1.846	--	2.51	21.91	1.199	58.7	CLOUDY	—
0916	50	↓	7.78	1.850	--	2.50	21.98	1.202	59.9	CLOUDY	—
0918	60	↓	7.77	1.850	--	2.68	22.14	1.202	61.6	CLOUDY	—
0919	65	↓	7.77	1.853	--	2.66	22.26	1.203	62.3	CLOUDY	—
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/12/2013 **2Q2013**

WELL NO. **MW-711** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
OVERCAST, COOL

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	103.00	(ft.)
HEIGHT OF WATER COLUMN	27.00	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 17.8	(gal)
PURGE VOLUME	x 3 = 53.5	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP mV	Color	Odor
0943	5	VAC TRUCK	7.70	1.764	/	2.62	21.43	1.145	-45.4	DK GRAY	STRONG
0946	10	"	7.57	1.765	/	2.42	22.13	1.146	-82.5	DK GRAY	STRONG
0949	15	"	7.64	1.782	/	1.96	22.20	1.157	-83.3	GRAY	STRONG

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/12/13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-711-041213 @ 1020
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
1	1020	ice	8015 - Methane	VOAs	3	NONE	
1		ice	Total Alkalinity	250 ml poly	1	NONE	
1		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1		ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/12/13 (20 2013)

WELL NO. 711

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F (C)	TDS (g/L)	ORP mV	Color	Odor
0951	20	VAC TRUCK	7.68	1.780	--	1.96	22.29	1.156	-48.2	GRAY	STRONG
0956	30	↓	7.70	1.808	--	2.13	22.21	1.174	-49.8	CLOUDY	STRONG
1001	40	↓	7.67	1.830	--	2.12	22.10	1.188	-52.2	CLOUDY	STRONG
1008	50	↓	7.56	1.817	--	2.37	22.34	1.181	-44.9	CLOUDY	STRONG
010	55	↓	7.67	1.828	--	2.32	22.45	1.186	-54.3	CLOUDY	STRONG
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/12/2013 **2Q2013**

WELL NO. **MW-712** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
SUNNY, WARM

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	4"		(inches)
DEPTH OF WELL	130.00		(ft.)
DEPTH TO WATER	99.95		(ft.)
HEIGHT OF WATER COLUMN	30.05		(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. =	19.8	(gal)
PURGE VOLUME	x 3 =	59.5	(gal)
PRODUCT THICKNESS			(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F)	TDS g/L	ORP mV	Color	Odor
1347	5	VAC TRUCK	7.67	1.806	/	2.79	24.58	1.174	-69.4	CLOUDY	SLIGHT
1349	10	↓	7.59	1.807	/	2.51	24.17	1.175	-97.7	CLOUDY	SLIGHT
1352	15	↓	7.62	1.806	/	2.39	24.01	1.173	-110.4	CLOUDY	SLIGHT

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/12/13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-712-041213 @ 1420
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
	1420						

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft)$ x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/12/13 (2013)

WELL NO. 712

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F)(C)	TDS (g/L)	ORP mV	Color	Odor
1355	20	VAC TRUCK	7.69	1.804	--	2.51	23.90	1.171	-93.8	CLOUDY	SLIGHT
1359	30	↓	7.68	1.799	--	2.02	24.22	1.169	-75.1	CLOUDY	SLIGHT
1405	40		7.68	1.802	--	2.39	24.32	1.170	-75.6	CLOUDY	SLIGHT
1411	50		7.62	1.769	--	2.03	24.29	1.149	-30.9	CLOUDY	SLIGHT
1416	60		7.59	1.769	--	2.21	24.59	1.149	-17.9	CLOUDY	SLIGHT
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/11/2013 **2Q2013**

WELL NO. **MW-713** Hospital
SAMPLED BY: ~~Franc Sosic~~ AW

Well Notes:
WELL CONDITION: GOOD

WEATHER CONDITIONS: WARM, SUNNY

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	105.59	(ft.)
HEIGHT OF WATER COLUMN	24.41	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 16.1	(gal)
PURGE VOLUME	x 3 = 48.3	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP mV	Color	Odor
1028	5	VAC TRUCK	7.89	2.065	/	2.95	23.29	1.343	9.1	CLOUDY	SLIGHT
1030	10	↓	7.82	2.079	/	2.89	23.73	1.347	-0.5	CLOUDY	SLIGHT
1033	15	↓	7.67	2.189	/	2.81	23.92	1.421	-88.6	CLOUDY	SLIGHT

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1/2	04/11/13	ice	8260B - VOCs + Oxys	VOAs	3/3	HCL	LL_713_041113_01@1055
1/2	@	ice	8015M - TPH-g	VOAs	3/3	HCL	LL_713_041113_02@1105
1		ice	8015 - Methane	VOAs	3	NONE	
1	1055 (1)	ice	Total Alkalinity	250 ml poly	1	NONE	
1	1105 (2)	ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1		ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/11/13 (2Q2013)

WELL NO. 713

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
1035	20	VAC TRUCK	7.66	2.239	--	2.74	24.00	1.452	-114.6	CLOUDY	SLIGHT
1040	30	↓	7.66	2.284	--	2.54	23.79	1.476	-124.3	CLOUDY	SLIGHT
1045	40	↓	7.67	2.276	--	2.83	24.05	1.478	-115.7	CLOUDY	SLIGHT
1051	50	↓	7.66	2.286	--	2.95	23.67	1.491	-127.9	CLOUDY	SLIGHT
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/11/2013 **2Q2013**

WELL NO. **MW-714** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
WARM, SUNNY

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	142.00	(ft.)
DEPTH TO WATER	106.18	(ft.)
HEIGHT OF WATER COLUMN	35.82	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 23.6	(gal)
PURGE VOLUME	x 3 = 70.9	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
0927	5	VAC TRUCK	7.95	2.509		4.30	22.22	1.631	3.7	CLOUDY	SLIGHT
0929	10	"	7.85	2.521		3.34	22.55	1.634	-29.1	CLEAR	SLIGHT
0931	15	"	7.81	2.511		2.91	22.92	1.633	-39.5	CLEAR	SLIGHT

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/11/13 @ 1005	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-714-041113 @ 1005
1		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/11/13 (2Q2013)

WELL NO. 714

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µ(s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS (g/L)	ORP mV	Color	Odor
0933	20	VAC TRUCK	7.80	2.521	--	2.75	22.97	1.636	-48.7	CLEAR	SLIGHT
0937	30		7.78	2.524	--	2.97	22.82	1.638	-50.8	CLEAR	SLIGHT
0941	40		7.73	2.527	--	3.16	22.74	1.640	-54.1	CLEAR	SLIGHT
0946	50		7.77	2.521	--	3.63	22.86	1.636	-29.2	CLEAR	SLIGHT
0950	60		7.75	2.533	--	2.68	22.84	1.644	-49.1	CLEAR	SLIGHT
0954	70	↓	7.75	2.529	--	3.05	22.82	1.641	-54.3	CLEAR	SLIGHT
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GROUNDWATER SAMPLING LOG

PROJECT NAME: **CENCO**
PROJECT NO.: **1003-001-300**
DATE: 04/12/2013 **2Q2013**

WELL NO. **MW-715** Hospital
SAMPLED BY: ~~Frane Sosic~~ AW

Well Notes:
WELL CONDITION:
GOOD

WEATHER CONDITIONS:
SUNNY, WARM

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	134.00	(ft.)
DEPTH TO WATER	97.98	(ft.)
HEIGHT OF WATER COLUMN	36.02	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 23.8	(gal)
PURGE VOLUME	x 3 = 71.3	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm	Turbidity NTUs	DO mg/L	Temperature (F (C))	TDS g/L	ORP mV	Color	Odor
1124	5	VARIABLE	7.87	1.570	/	3.36	22.63	1.020	-99.2	CLOUDY	SLIGHT
1127	10	↓	7.80	1.567	/	2.91	22.94	1.018	-106.3	CLOUDY	SLIGHT
1131	15	↓	7.81	1.567	/	2.70	23.25	1.017	-121.5	CLOUDY	SLIGHT

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	04/12/13	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_715_041213@1215
1	@	ice	8015M - TPH-g	VOAs	3	HCL	
1	1215	ice	8015 - Methane	VOAs	3	NONE	
1		ice	Total Alkalinity	250 ml poly	1	NONE	
1		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
1		ice	Ferrous Iron	250 ml poly	1	HNO_3	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 04/12/13 (2Q2013)

WELL NO. 715

SAMPLED BY: ~~Frane Sosic~~ AW

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F (C)	TDS (g/L)	ORP mV	Color	Odor
1134	20	VAC TRUCK	7.82	1.562	--	2.35	23.39	1.015	-127.2	CLOUDY	SLIGHT
1140	30	"	7.81	1.579	--	2.42	23.53	1.026	-127.5	CLOUDY	SLIGHT
1147	40	"	7.82	1.600	--	2.37	23.35	1.039	-126.4	CLOUDY	SLIGHT
1153	50	"	7.83	1.602	--	2.49	23.46	1.041	-125.6	CLEAR	SLIGHT
1159	60	"	7.82	1.602	--	2.51	23.50	1.041	-128.1	CLEAR	SLIGHT
1207	70	↓	7.81	1.604	--	2.58	23.51	1.041	-124.9	CLEAR	SLIGHT
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Appendix B

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/01/13 16:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_14A_040113	T130756-01	Water	04/01/13 10:45	04/01/13 16:35
LL_14B_040113	T130756-02	Water	04/01/13 12:48	04/01/13 16:35
LL_14C_040113	T130756-03	Water	04/01/13 15:56	04/01/13 16:35
LL_TB_040113	T130756-04	Water	04/01/13 00:00	04/01/13 16:35
LL_W10_040113	T130756-05	Water	04/01/13 16:10	04/01/13 16:35

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Katherine Shields

Katherine Shields, Jr. Project Manager

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Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14A_040113

T130756-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**96**	50	ug/l	1	3040311	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	ND	0.100	mg/l	1	3040247	04/02/13	04/08/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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949.297.5027 Fax

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14A_040113

T130756-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**91**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**2.4**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**12**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**5.8**	0.50	"	"	"	"	"	"	
Toluene	**1.8**	0.50	"	"	"	"	"	"	
Ethylbenzene	**1.4**	0.50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14A_040113

T130756-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	**6.6**	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
o-Xylene	**4.5**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**460**	20	mg/l	1	3040231	04/02/13	04/02/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**183**	5.00	mg/l	10	3040312	04/03/13	04/03/13	EPA 300.0	
Nitrate as NO3	**2.99**	0.500	"	1	3040228	04/02/13	04/02/13	"	
RSK-175									
Methane	ND	1.00	ug/l	1	3040216	04/02/13	04/02/13	RSK-175	

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14B_040113

T130756-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3040311	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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949.297.5020 Phone
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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14B_040113

T130756-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**21**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2.6**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**0.61**	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	**2.0**	1.0	"	"	"	"	"	"	
o-Xylene	**1.2**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14B_040113

T130756-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14C_040113

T130756-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3040311	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14C_040113

T130756-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**27**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2.4**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**0.88**	0.50	"	"	"	"	"	"	
Ethylbenzene	**0.58**	0.50	"	"	"	"	"	"	
m,p-Xylene	**2.7**	1.0	"	"	"	"	"	"	
o-Xylene	**1.7**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_14C_040113

T130756-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.9 %*	*88.8-117*		"	"	"	"	

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Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_TB_040113

T130756-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_TB_040113

T130756-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_TB_040113

T130756-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.2 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_W10_040113

T130756-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**490**	50	ug/l	1	3040311	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*96.1 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_W10_040113

T130756-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**13**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**6.3**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

LL_W10_040113

T130756-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	**150**	10	ug/l	1	3040222	04/02/13	04/03/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*88.8-117*		"	"	"	"	

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040311 - EPA 5030 GC										
Blank (3040311-BLK1)				Prepared: 04/03/13 Analyzed: 04/04/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*95.2*		*"*	*100*		*95.2*	*65-135*			
LCS (3040311-BS1)				Prepared: 04/03/13 Analyzed: 04/04/13						
C6-C12 (GRO)	4930	50	ug/l	5520		89.2	75-125			
Surrogate 4-Bromofluorobenzene	*83.7*		*"*	*100*		*83.7*	*65-135*			
LCS Dup (3040311-BSD1)				Prepared: 04/03/13 Analyzed: 04/04/13						
C6-C12 (GRO)	5430	50	ug/l	5520		98.4	75-125	9.74	20	
Surrogate 4-Bromofluorobenzene	*70.7*		*"*	*100*		*70.7*	*65-135*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040247 - EPA 3010A										
Blank (3040247-BLK1)				Prepared: 04/02/13 Analyzed: 04/08/13						
Ferrous Iron	ND	0.100	mg/l							
Duplicate (3040247-DUP1)		**Source: T130772-01**		Prepared: 04/02/13 Analyzed: 04/08/13						
Ferrous Iron	0.326	0.100	mg/l		0.383			16.0	200	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040222 - EPA 5030 GCMS										
Blank (3040222-BLK1)				Prepared & Analyzed: 04/02/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040222 - EPA 5030 GCMS										
Blank (3040222-BLK1)				Prepared & Analyzed: 04/02/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.52*		*"*	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.19*		*"*	*8.00*		*102*	*81-136*			
Surrogate Toluene-d8	*7.94*		*"*	*8.00*		*99.2*	*88.8-117*			

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040222 - EPA 5030 GCMS										
LCS (3040222-BS1)				Prepared: 04/02/13 Analyzed: 04/03/13						
Chlorobenzene	18.8	1.0	ug/l	20.0		94.0	75-125			
1,1-Dichloroethene	23.2	1.0	"	20.0		116	75-125			
Trichloroethene	19.1	1.0	"	20.0		95.6	75-125			
Benzene	20.9	0.50	"	20.0		105	75-125			
Toluene	18.4	0.50	"	20.0		92.2	75-125			
Surrogate 4-Bromofluorobenzene	*8.29*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate Dibromofluoromethane	*10.1*		*"*	*8.00*		*126*	*81-136*			
Surrogate Toluene-d8	*7.61*		*"*	*8.00*		*95.1*	*88.8-117*			
Matrix Spike (3040222-MS1)		**Source: T130750-01**		Prepared: 04/02/13 Analyzed: 04/03/13						
Chlorobenzene	18.5	1.0	ug/l	20.0	ND	92.6	75-125			
1,1-Dichloroethene	21.6	1.0	"	20.0	ND	108	75-125			
Trichloroethene	17.9	1.0	"	20.0	ND	89.4	75-125			
Benzene	53.8	0.50	"	20.0	34.2	98.4	75-125			
Toluene	19.6	0.50	"	20.0	1.93	88.2	75-125			
Surrogate 4-Bromofluorobenzene	*8.63*		*"*	*8.00*		*108*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.37*		*"*	*8.00*		*117*	*81-136*			
Surrogate Toluene-d8	*7.81*		*"*	*8.00*		*97.6*	*88.8-117*			
Matrix Spike Dup (3040222-MSD1)		**Source: T130750-01**		Prepared: 04/02/13 Analyzed: 04/03/13						
Chlorobenzene	19.6	1.0	ug/l	20.0	ND	98.0	75-125	5.77	20	
1,1-Dichloroethene	24.3	1.0	"	20.0	ND	122	75-125	11.6	20	
Trichloroethene	19.0	1.0	"	20.0	ND	95.2	75-125	6.39	20	
Benzene	64.1	0.50	"	20.0	34.2	150	75-125	17.3	20	QM-05
Toluene	21.1	0.50	"	20.0	1.93	95.8	75-125	7.48	20	
Surrogate 4-Bromofluorobenzene	*8.25*		*"*	*8.00*		*103*	*83.5-119*			
Surrogate Dibromofluoromethane	*10.4*		*"*	*8.00*		*130*	*81-136*			
Surrogate Toluene-d8	*7.52*		*"*	*8.00*		*94.0*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040231 - General Preparation										
Duplicate (3040231-DUP1)		**Source: T130756-01**		Prepared & Analyzed: 04/02/13						
Total Alkalinity	465	20	mg/l		465			0.00	25	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040228 - General Preparation										
Blank (3040228-BLK1)				Prepared & Analyzed: 04/02/13						
Nitrate as N	ND	0.100	mg/l							
Nitrite as N	ND	0.100	"							
Nitrite as NO2	ND	0.500	"							
Nitrate as NO3	ND	0.500	"							
LCS (3040228-BS1)				Prepared & Analyzed: 04/02/13						
Nitrate as NO3	0.516	0.500	mg/l	0.500		103	75-125			
Matrix Spike (3040228-MS1)		**Source: T130754-04**		Prepared & Analyzed: 04/02/13						
Nitrate as NO3	0.493	0.500	mg/l	0.500	ND	98.6	75-125			
Matrix Spike Dup (3040228-MSD1)		**Source: T130754-04**		Prepared & Analyzed: 04/02/13						
Nitrate as NO3	0.515	0.500	mg/l	0.500	ND	103	75-125	4.37	20	
Batch 3040312 - General Preparation										
Blank (3040312-BLK1)				Prepared & Analyzed: 04/03/13						
Sulfate as SO4	ND	0.500	mg/l							
LCS (3040312-BS1)				Prepared & Analyzed: 04/03/13						
Sulfate as SO4	9.55	0.500	mg/l	10.0		95.5	75-125			
Matrix Spike (3040312-MS1)		**Source: T130772-01**		Prepared & Analyzed: 04/03/13						
Sulfate as SO4	9.38	0.500	mg/l	10.0	1.23	81.5	75-125			
Matrix Spike Dup (3040312-MSD1)		**Source: T130772-01**		Prepared & Analyzed: 04/03/13						
Sulfate as SO4	9.18	0.500	mg/l	10.0	1.23	79.5	75-125	2.16	20	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040216 - EPA 3810m Headspace										
Blank (3040216-BLK1)				Prepared & Analyzed: 04/02/13						
Methane	ND	1.00	ug/l							
Duplicate (3040216-DUP1)		**Source: T130756-01**		Prepared & Analyzed: 04/02/13						
Methane	ND	1.00	ug/l		ND				20	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 09:44

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-1-13 Page: 1 OF 1
Project Name: CENCO
Collector: Frane Sosic Client Project #: 1003-001-300
Batch #: T130756 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane (8015)	Alkalinity	300 IC (Nitrate, Sulfate)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #
LL_14A_040113	4-1-13	1045	GW	X	X	X	X	X	X	12		01
LL_14B_040113	4-1-13	1248	GW	X	X					6		02
LL_14C_040113	4-1-13	1556	GW	X	X					6		03
LL_TB_040113			Water		X					2		04
LL_W10_040113	4-1-13	1610	GW	X	X					6		05

Relinquished by: (signature) F. Sosic	Date / Time 4.1.2013 16:15	Received by: (Sign / Date / Time)	4/1/13 16:35
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	

Total # of containers	FS 26 32
Chain of Custody seals	N
Seals intact? Y/N/NA	N/A
Received good condition/cold	Y 3.2°
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

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Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130756

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4/1/13 1635

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.4 °C +/- the CF (- 0.2°C) = 3.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒ Yes	☐ No*	☐ N/A
Custody Seals Intact on Cooler/Sample	☐ Yes	☐ No*	☒ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date 4/1/13

Comments:

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/02/13 16:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_15A_040213	T130772-01	Water	04/02/13 11:29	04/02/13 16:13
LL_15B_040213	T130772-02	Water	04/02/13 12:45	04/02/13 16:13
LL_15C_040213	T130772-03	Water	04/02/13 14:36	04/02/13 16:13
LL_W12_040213	T130772-04	Water	04/02/13 16:00	04/02/13 16:13
LL_TB_040213	T130772-05	Water	04/02/13 00:00	04/02/13 16:13

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15A_040213

T130772-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**3400**	50	ug/l	1	3040317	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	**0.383**	0.100	mg/l	1	3040247	04/02/13	04/08/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**4.2**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**2.9**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15A_040213

T130772-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**8.5**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**2.4**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**260**	1.0	"	"	"	"	"	"	E-1
n-Propylbenzene	**19**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**67**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**230**	1.0	"	"	"	"	"	"	E-1
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**86**	0.50	"	"	"	"	"	"	
Toluene	**32**	0.50	"	"	"	"	"	"	
Ethylbenzene	**79**	0.50	"	"	"	"	"	"	
m,p-Xylene	**460**	25	"	25	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15A_040213

T130772-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
o-Xylene	**130**	0.50	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**120**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**72**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**790**	20	mg/l	1	3040308	04/03/13	04/03/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**1.23**	0.500	mg/l	1	3040312	04/03/13	04/03/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	
RSK-175									
Methane	**1.99**	1.00	ug/l	1	3040313	04/03/13	04/04/13	RSK-175	

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15B_040213

T130772-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**430**	50	ug/l	1	3040317	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*94.7 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**1.3**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15B_040213

T130772-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**2.4**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**46**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**5.8**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**19**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**62**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**1.0**	0.50	"	"	"	"	"	"	
Toluene	**2.3**	0.50	"	"	"	"	"	"	
Ethylbenzene	**13**	0.50	"	"	"	"	"	"	
m,p-Xylene	**87**	1.0	"	"	"	"	"	"	
o-Xylene	**19**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**180**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15B_040213

T130772-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethyl tert-butyl ether	ND	2.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Methyl tert-butyl ether	**19**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.0 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	

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SunStar Laboratories, Inc.
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15C_040213

T130772-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**410**	50	ug/l	1	3040317	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15C_040213

T130772-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**1.2**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**30**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**2.9**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**13**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**42**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**20**	0.50	"	"	"	"	"	"	
Toluene	**5.8**	0.50	"	"	"	"	"	"	
Ethylbenzene	**9.8**	0.50	"	"	"	"	"	"	
m,p-Xylene	**86**	1.0	"	"	"	"	"	"	
o-Xylene	**21**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**25**	10	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_15C_040213

T130772-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.3**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.0 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_W12_040213

T130772-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**150**	50	ug/l	1	3040317	04/03/13	04/04/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**1.0**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_W12_040213

T130772-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**1.2**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**13**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**3.0**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**4.6**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**15**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**3.0**	0.50	"	"	"	"	"	"	
m,p-Xylene	**17**	1.0	"	"	"	"	"	"	
o-Xylene	**4.2**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**26**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_W12_040213

T130772-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethyl tert-butyl ether	ND	2.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_TB_040213

T130772-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_TB_040213

T130772-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

LL_TB_040213

T130772-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3040316	04/03/13	04/09/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040317 - EPA 5030 GC										
Blank (3040317-BLK1)				Prepared: 04/03/13 Analyzed: 04/04/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*88.0*		*"*	*100*		*88.0*	*65-135*			
LCS (3040317-BS1)				Prepared: 04/03/13 Analyzed: 04/04/13						
C6-C12 (GRO)	5400	50	ug/l	5520		97.8	75-125			
Surrogate 4-Bromofluorobenzene	*68.9*		*"*	*100*		*68.9*	*65-135*			
LCS Dup (3040317-BSD1)				Prepared: 04/03/13 Analyzed: 04/04/13						
C6-C12 (GRO)	4830	50	ug/l	5520		87.5	75-125	11.0	20	
Surrogate 4-Bromofluorobenzene	*85.4*		*"*	*100*		*85.4*	*65-135*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040247 - EPA 3010A										
Blank (3040247-BLK1)				Prepared: 04/02/13 Analyzed: 04/08/13						
Ferrous Iron	ND	0.100	mg/l							
Duplicate (3040247-DUP1)		**Source: T130772-01**		Prepared: 04/02/13 Analyzed: 04/08/13						
Ferrous Iron	0.326	0.100	mg/l		0.383			16.0	200	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040316 - EPA 5030 GCMS										
Blank (3040316-BLK1)				Prepared: 04/03/13 Analyzed: 04/08/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040316 - EPA 5030 GCMS										
Blank (3040316-BLK1)				Prepared: 04/03/13 Analyzed: 04/08/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.70*		*"*	*8.00*		*109*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.86*		*"*	*8.00*		*98.2*	*81-136*			
Surrogate Toluene-d8	*8.37*		*"*	*8.00*		*105*	*88.8-117*			

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040316 - EPA 5030 GCMS										
LCS (3040316-BS1)				Prepared: 04/03/13 Analyzed: 04/09/13						
Chlorobenzene	19.2	1.0	ug/l	20.0		95.8	75-125			
1,1-Dichloroethene	20.5	1.0	"	20.0		103	75-125			
Trichloroethene	18.4	1.0	"	20.0		92.2	75-125			
Benzene	19.9	0.50	"	20.0		99.6	75-125			
Toluene	18.0	0.50	"	20.0		89.8	75-125			
Surrogate 4-Bromofluorobenzene	*8.40*		"	*8.00*		*105*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.53*		"	*8.00*		*107*	*81-136*			
Surrogate Toluene-d8	*8.28*		"	*8.00*		*104*	*88.8-117*			
LCS Dup (3040316-BSD1)				Prepared: 04/03/13 Analyzed: 04/09/13						
Chlorobenzene	18.6	1.0	ug/l	20.0		93.0	75-125	3.07	20	
1,1-Dichloroethene	19.6	1.0	"	20.0		98.0	75-125	4.63	20	
Trichloroethene	18.0	1.0	"	20.0		90.0	75-125	2.42	20	
Benzene	18.8	0.50	"	20.0		94.2	75-125	5.52	20	
Toluene	17.4	0.50	"	20.0		86.9	75-125	3.28	20	
Surrogate 4-Bromofluorobenzene	*8.44*		"	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.48*		"	*8.00*		*106*	*81-136*			
Surrogate Toluene-d8	*8.07*		"	*8.00*		*101*	*88.8-117*			

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040308 - General Preparation										
Duplicate (3040308-DUP1)		**Source: T130772-01**		Prepared & Analyzed: 04/03/13						
Total Alkalinity	800	20	mg/l		790			1.26	25	

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040312 - General Preparation										
Blank (3040312-BLK1)				Prepared & Analyzed: 04/03/13						
Sulfate as SO4	ND	0.500	mg/l							
Nitrate as NO3	ND	0.500	"							
LCS (3040312-BS1)				Prepared & Analyzed: 04/03/13						
Sulfate as SO4	9.55	0.500	mg/l	10.0		95.5	75-125			
Nitrate as NO3	0.521	0.500	"	0.500		104	75-125			
Matrix Spike (3040312-MS1)		**Source: T130772-01**		Prepared & Analyzed: 04/03/13						
Sulfate as SO4	9.38	0.500	mg/l	10.0	1.23	81.5	75-125			
Nitrate as NO3	0.532	0.500	"	0.500	ND	106	75-125			
Matrix Spike Dup (3040312-MSD1)		**Source: T130772-01**		Prepared & Analyzed: 04/03/13						
Sulfate as SO4	9.18	0.500	mg/l	10.0	1.23	79.5	75-125	2.16	20	
Nitrate as NO3	0.521	0.500	"	0.500	ND	104	75-125	2.09	20	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040313 - EPA 3810m Headspace										
Blank (3040313-BLK1)				Prepared: 04/03/13 Analyzed: 04/04/13						
Methane	ND	1.00	ug/l							
Duplicate (3040313-DUP1)		**Source: T130772-01**		Prepared: 04/03/13 Analyzed: 04/04/13						
Methane	1.90	1.00	ug/l		1.99			4.63	20	

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949.297.5020 Phone
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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/09/13 16:50

Notes and Definitions

E-1	The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-2-2013
Project Name: CENCO
Collector: Frane Sosic
Batch #: T130772

Page: 1 OF 1
Client Project #: 1003-001-300
EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane (8015)	Nitrate, Sulfate (300 IC)	Alkalinity	Ferrous IRON								Total # of containers	Comments/Preservative	Laboratory ID #
LL_15A_040213	4.2.13	11:29	GW	X	X	X	X	X	X								12		01
LL_15B_040213	4.2.13	12:45	GW	X	X												6		02
LL_15C_040213	4.2.13	14:36	GW	X	X												6		03
LL_W12_040213	4.2.13	16:00	GW	X	X												6		04
LL_TB_040213			Water		X												2		05

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)		
[signature] F. Sosic	4.2.2013 16:13	Patrick [signature] 4/2/13 16:17	Total # of containers	32
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Chain of Custody seals	N
			Seals intact? Y/N/NA	NA
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Received good condition/cold	Y
			Turn around time:	Standard

Notes
2.8°

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130772

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4/2/13 1613

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.0 °C +/- the CF (- 0.2°C) = 2.8 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date 4/2/13

Comments:

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

10 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/03/13 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_16A_040313	T130785-01	Water	04/03/13 10:47	04/03/13 16:30
LL_16B_040313	T130785-02	Water	04/03/13 12:03	04/03/13 16:30
LL_16C_040313	T130785-03	Water	04/03/13 14:35	04/03/13 16:30
LL_W1_040313	T130785-04	Water	04/03/13 15:48	04/03/13 16:30
LL_TB_040313	T130785-05	Water	04/03/13 00:00	04/03/13 16:30

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16A_040313

T130785-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**340**	50	ug/l	1	3040410	04/04/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*128 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**1.8**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	**1.2**	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	**2.0**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16A_040313

T130785-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**5.5**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**20**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16A_040313

T130785-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*127 %*	*83.5-119*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*101 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*	*88.8-117*		"	"	"	"	

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
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LL_16B_040313

T130785-02 (Water)

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	50	ug/l	1	3040410	04/04/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*124 %*	*65-135*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.9**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1.2**	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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25712 Commercentre Drive
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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16B_040313

T130785-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**9.1**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1.5**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**3.4**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	**1.1**	1.0	"	"	"	"	"	"	
o-Xylene	**0.79**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16B_040313

T130785-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*116 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.1 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*	*88.8-117*		"	"	"	"	

SunStar Laboratories, Inc.

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16C_040313

T130785-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3040410	04/04/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*125 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.6**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16C_040313

T130785-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**7.8**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**0.70**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	**0.56**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_16C_040313

T130785-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Tert-butyl alcohol	ND	10	ug/l	1	3040409	04/04/13	04/08/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*88.8-117*		"	"	"	"	
RSK-175									
Methane	**6.22**	1.00	ug/l	1	3040417	04/04/13	04/04/13	RSK-175	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_W1_040313

T130785-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3040410	04/04/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*136 %*	*65-135*		"	"	"	"	*S-04*
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040409	04/04/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_W1_040313

T130785-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040409	04/04/13	04/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**5.6**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**1.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_W1_040313

T130785-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040409	04/04/13	04/09/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*96.9 %*	*88.8-117*		"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_TB_040313

T130785-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3040409	04/04/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_TB_040313

T130785-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3040409	04/04/13	04/09/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

LL_TB_040313

T130785-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3040409	04/04/13	04/09/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040410 - EPA 5030 GC										
Blank (3040410-BLK1)				Prepared: 04/04/13 Analyzed: 04/08/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*121*		*"*	*100*		*121*	*65-135*			
LCS (3040410-BS1)				Prepared: 04/04/13 Analyzed: 04/08/13						
C6-C12 (GRO)	5350	50	ug/l	5520		97.0	75-125			
Surrogate 4-Bromofluorobenzene	*101*		*"*	*100*		*101*	*65-135*			
Matrix Spike (3040410-MS1)	**Source: T130785-01**			Prepared: 04/04/13 Analyzed: 04/08/13						
C6-C12 (GRO)	4030	50	ug/l	5520	343	66.8	65-135			
Surrogate 4-Bromofluorobenzene	*88.1*		*"*	*100*		*88.1*	*65-135*			
Matrix Spike Dup (3040410-MSD1)	**Source: T130785-01**			Prepared: 04/04/13 Analyzed: 04/08/13						
C6-C12 (GRO)	3640	50	ug/l	5520	343	59.8	65-135	10.0	20	QM-05
Surrogate 4-Bromofluorobenzene	*89.0*		*"*	*100*		*89.0*	*65-135*			

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040409 - EPA 5030 GCMS										
Blank (3040409-BLK1)				Prepared: 04/04/13 Analyzed: 04/08/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040409 - EPA 5030 GCMS										
Blank (3040409-BLK1)				Prepared: 04/04/13 Analyzed: 04/08/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.92*		*"*	*8.00*		*112*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.12*		*"*	*8.00*		*102*	*81-136*			
Surrogate Toluene-d8	*7.54*		*"*	*8.00*		*94.2*	*88.8-117*			

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040409 - EPA 5030 GCMS										
LCS (3040409-BS1)				Prepared: 04/04/13 Analyzed: 04/09/13						
Chlorobenzene	18.8	1.0	ug/l	20.0		93.8	75-125			
1,1-Dichloroethene	24.7	1.0	"	20.0		124	75-125			
Trichloroethene	21.5	1.0	"	20.0		107	75-125			
Benzene	21.6	0.50	"	20.0		108	75-125			
Toluene	19.2	0.50	"	20.0		96.1	75-125			
Surrogate 4-Bromofluorobenzene	*8.16*		"	*8.00*		*102*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.37*		"	*8.00*		*105*	*81-136*			
Surrogate Toluene-d8	*7.55*		"	*8.00*		*94.4*	*88.8-117*			
Matrix Spike (3040409-MS1)		**Source: T130785-01**		Prepared: 04/04/13 Analyzed: 04/09/13						
Chlorobenzene	19.6	1.0	ug/l	20.0	ND	97.8	75-125			
1,1-Dichloroethene	25.7	1.0	"	20.0	ND	129	75-125			QM-05
Trichloroethene	21.6	1.0	"	20.0	ND	108	75-125			
Benzene	40.8	0.50	"	20.0	20.1	103	75-125			
Toluene	21.2	0.50	"	20.0	ND	106	75-125			
Surrogate 4-Bromofluorobenzene	*8.52*		"	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.48*		"	*8.00*		*106*	*81-136*			
Surrogate Toluene-d8	*7.89*		"	*8.00*		*98.6*	*88.8-117*			
Matrix Spike Dup (3040409-MSD1)		**Source: T130785-01**		Prepared: 04/04/13 Analyzed: 04/09/13						
Chlorobenzene	20.5	1.0	ug/l	20.0	ND	102	75-125	4.70	20	
1,1-Dichloroethene	26.2	1.0	"	20.0	ND	131	75-125	1.89	20	QM-05
Trichloroethene	21.3	1.0	"	20.0	ND	106	75-125	1.58	20	
Benzene	39.8	0.50	"	20.0	20.1	98.6	75-125	2.31	20	
Toluene	20.3	0.50	"	20.0	ND	102	75-125	4.48	20	
Surrogate 4-Bromofluorobenzene	*8.66*		"	*8.00*		*108*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.78*		"	*8.00*		*110*	*81-136*			
Surrogate Toluene-d8	*7.70*		"	*8.00*		*96.2*	*88.8-117*			

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040417 - EPA 3810m Headspace										
Blank (3040417-BLK1)				Prepared & Analyzed: 04/04/13						
Methane	ND	1.00	ug/l							
Duplicate (3040417-DUP1)		**Source: T130785-03**		Prepared & Analyzed: 04/04/13						
Methane	6.64	1.00	ug/l		6.22			6.53	20	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:29

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-3-13 Page: 1 OF 1
Project Name: CENCO
Collector: Frane Sosic Client Project #: 1003-001-300
Batch #: T130785 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane (8015)	Alkalinity	Nitrate, Sulfate (300.0)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #
LL_16A_040313	4.3.13	1047	GW	X	X					6		01
LL_16B_040313	4.3.13	1203	GW	X	X					6		02
LL_16C_040313	4.3.13	1435	GW	X	X	X				9		03
LL_W1_040313	4.3.13	1548	GW	X	X					6		04
LL_TB_040313			Water		X					2	—	05

Relinquished by: (signature) F. Sosic	Date / Time 4.3.2013 16:30	Received by: (Sign / Date / Time) 4/3/13 16:30	Total # of containers 29
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Chain of Custody seals
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Seals intact? Y/N/NA
			Received good condition/cold 4.7
			Turn around time: Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130785

Client Name: MUREX Project: CENCO

Received by: PATRICK Date/Time Received: 4.3.13 / 16:30

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 4.9 °C +/- the CF (- 0.2°C) = 4.7 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒ Yes	☐ No*	☐ N/A
Custody Seals Intact on Cooler/Sample	☐ Yes	☐ No*	☒ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SZ 4.3.13

Comments:

_____

_____

_____

_____

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

08 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/04/13 16:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W7_040413	T130794-01	Water	04/04/13 11:13	04/04/13 16:26
LL_W8_040413	T130794-02	Water	04/04/13 11:43	04/04/13 16:26
LL_106A_040413	T130794-03	Water	04/04/13 12:34	04/04/13 16:26
LL_107A_040413	T130794-04	Water	04/04/13 12:34	04/04/13 16:26
LL_TB_040413	T130794-05	Water	04/04/13 00:00	04/04/13 16:26

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_W7_040413

T130794-01 (Water)

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*118 %*	*65-135*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_W7_040413

T130794-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_W7_040413

T130794-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*88.8-117*		"	"	"	"	

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Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_W8_040413

T130794-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*113 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_W8_040413

T130794-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_W8_040413

T130794-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_106A_040413

T130794-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**480**	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*106 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**4.8**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	**1.9**	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_106A_040413

T130794-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**25**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	**17**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**14**	1.0	"	"	"	"	"	"	
Benzene	**6.9**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_106A_040413

T130794-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_107A_040413

T130794-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**180**	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*133 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_107A_040413

T130794-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**71**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**1.1**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**3.2**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**15**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**2.1**	0.50	"	"	"	"	"	"	
Ethylbenzene	**1.8**	0.50	"	"	"	"	"	"	
m,p-Xylene	**9.6**	1.0	"	"	"	"	"	"	
o-Xylene	**5.3**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_107A_040413

T130794-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_TB_040413

T130794-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

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T130794-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

LL_TB_040413

T130794-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3040510	04/05/13	04/06/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040808 - EPA 5030 GC										
Blank (3040808-BLK1)				Prepared & Analyzed: 04/08/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*98.3*		*"*	*100*		*98.3*	*65-135*			
LCS (3040808-BS1)				Prepared & Analyzed: 04/08/13						
C6-C12 (GRO)	5070	50	ug/l	5520		91.9	75-125			
Surrogate 4-Bromofluorobenzene	*82.2*		*"*	*100*		*82.2*	*65-135*			
LCS Dup (3040808-BSD1)				Prepared & Analyzed: 04/08/13						
C6-C12 (GRO)	5190	50	ug/l	5520		94.1	75-125	2.36	20	
Surrogate 4-Bromofluorobenzene	*76.2*		*"*	*100*		*76.2*	*65-135*			

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040510 - EPA 5030 GCMS										
Blank (3040510-BLK1)				Prepared: 04/05/13 Analyzed: 04/06/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040510 - EPA 5030 GCMS										
Blank (3040510-BLK1)				Prepared: 04/05/13 Analyzed: 04/06/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.67*		*"*	*8.00*		*108*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.52*		*"*	*8.00*		*119*	*81-136*			
Surrogate Toluene-d8	*8.01*		*"*	*8.00*		*100*	*88.8-117*			

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040510 - EPA 5030 GCMS										
LCS (3040510-BS1)				Prepared: 04/05/13 Analyzed: 04/06/13						
Chlorobenzene	16.7	1.0	ug/l	20.0		83.4	75-125			
1,1-Dichloroethene	22.1	1.0	"	20.0		110	75-125			
Trichloroethene	15.4	1.0	"	20.0		76.8	75-125			
Benzene	21.7	0.50	"	20.0		109	75-125			
Toluene	20.6	0.50	"	20.0		103	75-125			
Surrogate 4-Bromofluorobenzene	*7.67*		*"*	*8.00*		*95.9*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.77*		*"*	*8.00*		*122*	*81-136*			
Surrogate Toluene-d8	*8.09*		*"*	*8.00*		*101*	*88.8-117*			
Matrix Spike (3040510-MS1)		**Source: T130794-01**		Prepared: 04/05/13 Analyzed: 04/06/13						
Chlorobenzene	18.0	1.0	ug/l	20.0	ND	89.8	75-125			
1,1-Dichloroethene	22.1	1.0	"	20.0	ND	111	75-125			
Trichloroethene	13.7	1.0	"	20.0	ND	68.6	75-125			QM-05
Benzene	22.3	0.50	"	20.0	ND	112	75-125			
Toluene	19.8	0.50	"	20.0	ND	98.8	75-125			
Surrogate 4-Bromofluorobenzene	*8.27*		*"*	*8.00*		*103*	*83.5-119*			
Surrogate Dibromofluoromethane	*10.3*		*"*	*8.00*		*129*	*81-136*			
Surrogate Toluene-d8	*8.22*		*"*	*8.00*		*103*	*88.8-117*			
Matrix Spike Dup (3040510-MSD1)		**Source: T130794-01**		Prepared: 04/05/13 Analyzed: 04/06/13						
Chlorobenzene	18.3	1.0	ug/l	20.0	ND	91.4	75-125	1.66	20	
1,1-Dichloroethene	23.1	1.0	"	20.0	ND	115	75-125	4.25	20	
Trichloroethene	13.8	1.0	"	20.0	ND	69.0	75-125	0.654	20	QM-05
Benzene	23.1	0.50	"	20.0	ND	115	75-125	3.44	20	
Toluene	20.6	0.50	"	20.0	ND	103	75-125	4.26	20	
Surrogate 4-Bromofluorobenzene	*8.04*		*"*	*8.00*		*100*	*83.5-119*			
Surrogate Dibromofluoromethane	*10.4*		*"*	*8.00*		*129*	*81-136*			
Surrogate Toluene-d8	*7.95*		*"*	*8.00*		*99.4*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/08/13 16:19

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-4-13
Project Name: CENCO
Collector: Frane Sosic
Batch #: T130794

Page: 1 OF 1
Client Project #: 1003-001-300
EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Total # of containers	Comments/Preservative	Laboratory ID #
LL_W7_040413	4-4-13	11:13	GW	X	X	6		01
LL_W8_040413	4-4-13	11:43	GW	X	X	6		02
LL_106A_040413	4-4-13	12:34	GW	X	X	6		03
LL_107A_040413	4-4-13	15:25	GW	X	X	6		04
			Water		X	2		05

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
F. Sosic	4.4.2013 16:26	4/4/13 16:26
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)

Total # of containers	26
Chain of Custody seals	NA
Seals intact? Y/N/NA	NA
Received good condition/cold	4.2
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130794

Client Name: MUREX Project: CENCO

Received by: PATRICK Date/Time Received: 4/4/13 16:26

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 4.4 °C +/- the CF (- 0.2°C) = 4.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒ Yes	☐ No*	☐ N/A
Custody Seals Intact on Cooler/Sample	☐ Yes	☐ No*	☒ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date BC 4/5/13

Comments:

_____

_____

_____

_____

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

10 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/05/13 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W9_040513	T130806-01	Water	04/05/13 10:12	04/05/13 16:00
LL_104A_040513	T130806-02	Water	04/05/13 13:00	04/05/13 16:00
LL_W11_040513	T130806-03	Water	04/05/13 15:00	04/05/13 16:00
LL_TB_040513	T130806-04	Water	04/05/13 00:00	04/05/13 16:00

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_W9_040513

T130806-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*119 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.1**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_W9_040513

T130806-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_W9_040513

T130806-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_104A_040513

T130806-02 (Water)

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*108 %*	*65-135*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4.4**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_104A_040513

T130806-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**1.0**	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_104A_040513

T130806-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*97.1 %*	*88.8-117*		"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_W11_040513

T130806-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**250**	50	ug/l	1	3040808	04/08/13	04/08/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*115 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_W11_040513

T130806-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**8.9**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1.4**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**14**	0.50	"	"	"	"	"	"	
Toluene	**0.75**	0.50	"	"	"	"	"	"	
Ethylbenzene	**1.2**	0.50	"	"	"	"	"	"	
m,p-Xylene	**3.2**	1.0	"	"	"	"	"	"	
o-Xylene	**0.57**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_W11_040513

T130806-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_TB_040513

T130806-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_TB_040513

T130806-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

LL_TB_040513

T130806-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3040807	04/08/13	04/08/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.5 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040808 - EPA 5030 GC										
Blank (3040808-BLK1)				Prepared & Analyzed: 04/08/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*98.3*		*"*	*100*		*98.3*	*65-135*			
LCS (3040808-BS1)				Prepared & Analyzed: 04/08/13						
C6-C12 (GRO)	5070	50	ug/l	5520		91.9	75-125			
Surrogate 4-Bromofluorobenzene	*82.2*		*"*	*100*		*82.2*	*65-135*			
LCS Dup (3040808-BSD1)				Prepared & Analyzed: 04/08/13						
C6-C12 (GRO)	5190	50	ug/l	5520		94.1	75-125	2.36	20	
Surrogate 4-Bromofluorobenzene	*76.2*		*"*	*100*		*76.2*	*65-135*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040807 - EPA 5030 GCMS										
Blank (3040807-BLK1)				Prepared & Analyzed: 04/08/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040807 - EPA 5030 GCMS										
Blank (3040807-BLK1)				Prepared & Analyzed: 04/08/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*7.86*		"	*8.00*		*98.2*	*83.5-119*			
Surrogate Dibromofluoromethane	*6.45*		"	*8.00*		*80.6*	*81-136*			*S-GC*
Surrogate Toluene-d8	*7.52*		"	*8.00*		*94.0*	*88.8-117*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040807 - EPA 5030 GCMS										
LCS (3040807-BS1)				Prepared: 04/08/13 Analyzed: 04/09/13						
Chlorobenzene	21.1	1.0	ug/l	20.0		106	75-125			
1,1-Dichloroethene	21.1	1.0	"	20.0		106	75-125			
Trichloroethene	21.0	1.0	"	20.0		105	75-125			
Benzene	20.7	0.50	"	20.0		103	75-125			
Toluene	21.1	0.50	"	20.0		106	75-125			
Surrogate 4-Bromofluorobenzene	*8.67*		*"*	*8.00*		*108*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.71*		*"*	*8.00*		*96.4*	*81-136*			
Surrogate Toluene-d8	*8.45*		*"*	*8.00*		*106*	*88.8-117*			
LCS Dup (3040807-BSD1)				Prepared & Analyzed: 04/08/13						
Chlorobenzene	19.2	1.0	ug/l	20.0		95.8	75-125	9.83	20	
1,1-Dichloroethene	24.8	1.0	"	20.0		124	75-125	16.2	20	
Trichloroethene	21.2	1.0	"	20.0		106	75-125	1.14	20	
Benzene	22.3	0.50	"	20.0		112	75-125	7.77	20	
Toluene	20.3	0.50	"	20.0		101	75-125	4.01	20	
Surrogate 4-Bromofluorobenzene	*7.73*		*"*	*8.00*		*96.6*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.15*		*"*	*8.00*		*102*	*81-136*			
Surrogate Toluene-d8	*7.85*		*"*	*8.00*		*98.1*	*88.8-117*			

SunStar Laboratories, Inc.

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:41

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-5-13 Page: 1 OF 1
Project Name: CENCO
Collector: Frane Sosic Client Project #: 1003-001-300
Batch #: T130806 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Total # of containers	Comments/Preservative	Laboratory ID #
LL_W9_040513	4-5-13	10:12	GW	X	X	6		01
LL_104A_040513	4-5-13	1300	GW	X	X	6		02
LL_W11_040513	4-5-13	1500	GW	X	X	6		03
LL_TB_040513			Water		X	2		04

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
F. Sosic	F. Sosic 4-5-2013 16:00	4/5/13 16:00
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)

Total # of containers	
Chain of Custody seals	
Seals intact? Y/N/NA	
Received good condition/cold	3.3
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130806

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4.5.13 / 16:00

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.5 °C +/- the CF (- 0.2°C) = 3.3 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 4.5.13

Comments:

_____

_____

_____

_____

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

10 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/08/13 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W4_040813	T130812-01	Water	04/08/13 12:00	04/08/13 16:00
LL_503B_040813_01	T130812-02	Water	04/08/13 14:10	04/08/13 16:00
LL_503B_040813_02	T130812-03	Water	04/08/13 14:20	04/08/13 16:00
LL_707_040813	T130812-04	Water	04/08/13 15:43	04/08/13 16:00
LL_TB_040813	T130812-05	Water	04/08/13 00:00	04/08/13 16:00

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_W4_040813

T130812-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**360**	50	ug/l	1	3040919	04/09/13	04/10/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*113 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.3**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_W4_040813

T130812-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**3.8**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**3.8**	1.0	"	"	"	"	"	"	
Benzene	**18**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_W4_040813

T130812-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	**77**	10	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.8**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.8 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_503B_040813_01
T130812-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**720**	50	ug/l	1	3040919	04/09/13	04/10/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_503B_040813_01

T130812-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**1.4**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**76**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**4.6**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**8.7**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**39**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**64**	0.50	"	"	"	"	"	"	
Toluene	**4.3**	0.50	"	"	"	"	"	"	
Ethylbenzene	**17**	0.50	"	"	"	"	"	"	
m,p-Xylene	**47**	1.0	"	"	"	"	"	"	
o-Xylene	**12**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**20**	10	"	"	"	"	"	"	

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_503B_040813_01

T130812-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.8**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.9 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88.8-117*		"	"	"	"	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_503B_040813_02

T130812-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**600**	50	ug/l	1	3040919	04/09/13	04/10/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

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T130812-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**1.3**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**75**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**4.2**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**8.1**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**36**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**62**	0.50	"	"	"	"	"	"	
Toluene	**4.1**	0.50	"	"	"	"	"	"	
Ethylbenzene	**16**	0.50	"	"	"	"	"	"	
m,p-Xylene	**44**	1.0	"	"	"	"	"	"	
o-Xylene	**11**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**19**	10	"	"	"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_503B_040813_02

T130812-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.7**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_707_040813

T130812-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**240**	50	ug/l	1	3040919	04/09/13	04/10/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*97.4 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_707_040813

T130812-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**1.2**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**29**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**2.8**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**2.7**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**6.0**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**92**	0.50	"	"	"	"	"	"	
Toluene	**5.6**	0.50	"	"	"	"	"	"	
Ethylbenzene	**5.2**	0.50	"	"	"	"	"	"	
m,p-Xylene	**27**	1.0	"	"	"	"	"	"	
o-Xylene	**5.0**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

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T130812-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.1**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88.8-117*		"	"	"	"	

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949.297.5027 Fax

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

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T130812-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

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T130812-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

LL_TB_040813

T130812-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3040918	04/09/13	04/09/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040919 - EPA 5030 GC										
Blank (3040919-BLK1)				Prepared: 04/09/13 Analyzed: 04/10/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*107*		*"*	*100*		*107*	*65-135*			
LCS (3040919-BS1)				Prepared: 04/09/13 Analyzed: 04/10/13						
C6-C12 (GRO)	5360	50	ug/l	5520		97.0	75-125			
Surrogate 4-Bromofluorobenzene	*73.6*		*"*	*100*		*73.6*	*65-135*			
Matrix Spike (3040919-MS1)		**Source: T130812-04**		Prepared: 04/09/13 Analyzed: 04/10/13						
C6-C12 (GRO)	5010	50	ug/l	5520	242	86.4	65-135			
Surrogate 4-Bromofluorobenzene	*82.7*		*"*	*100*		*82.7*	*65-135*			
Matrix Spike Dup (3040919-MSD1)		**Source: T130812-04**		Prepared: 04/09/13 Analyzed: 04/10/13						
C6-C12 (GRO)	5460	50	ug/l	5520	242	94.5	65-135	8.54	20	
Surrogate 4-Bromofluorobenzene	*89.8*		*"*	*100*		*89.8*	*65-135*			

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040918 - EPA 5030 GCMS										
Blank (3040918-BLK1)				Prepared & Analyzed: 04/09/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040918 - EPA 5030 GCMS										
Blank (3040918-BLK1)				Prepared & Analyzed: 04/09/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.79*		*"*	*8.00*		*110*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.02*		*"*	*8.00*		*100*	*81-136*			
Surrogate Toluene-d8	*8.27*		*"*	*8.00*		*103*	*88.8-117*			

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040918 - EPA 5030 GCMS										
LCS (3040918-BS1)				Prepared & Analyzed: 04/09/13						
Chlorobenzene	17.6	1.0	ug/l	20.0		88.2	75-125			
1,1-Dichloroethene	19.7	1.0	"	20.0		98.6	75-125			
Trichloroethene	17.7	1.0	"	20.0		88.6	75-125			
Benzene	19.3	0.50	"	20.0		96.4	75-125			
Toluene	15.8	0.50	"	20.0		79.2	75-125			
Surrogate 4-Bromofluorobenzene	*8.30*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.60*		*"*	*8.00*		*108*	*81-136*			
Surrogate Toluene-d8	*8.10*		*"*	*8.00*		*101*	*88.8-117*			
Matrix Spike (3040918-MS1)	**Source: T130812-01**			Prepared & Analyzed: 04/09/13						
Chlorobenzene	16.5	1.0	ug/l	20.0	ND	82.5	75-125			
1,1-Dichloroethene	19.8	1.0	"	20.0	ND	99.2	75-125			
Trichloroethene	18.2	1.0	"	20.0	ND	90.8	75-125			
Benzene	38.5	0.50	"	20.0	18.1	102	75-125			
Toluene	16.3	0.50	"	20.0	ND	81.4	75-125			
Surrogate 4-Bromofluorobenzene	*8.10*		*"*	*8.00*		*101*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.45*		*"*	*8.00*		*106*	*81-136*			
Surrogate Toluene-d8	*8.25*		*"*	*8.00*		*103*	*88.8-117*			
Matrix Spike Dup (3040918-MSD1)	**Source: T130812-01**			Prepared & Analyzed: 04/09/13						
Chlorobenzene	17.1	1.0	ug/l	20.0	ND	85.4	75-125	3.40	20	
1,1-Dichloroethene	19.2	1.0	"	20.0	ND	96.1	75-125	3.22	20	
Trichloroethene	17.8	1.0	"	20.0	ND	88.8	75-125	2.23	20	
Benzene	38.7	0.50	"	20.0	18.1	103	75-125	0.544	20	
Toluene	16.3	0.50	"	20.0	ND	81.4	75-125	0.123	20	
Surrogate 4-Bromofluorobenzene	*8.12*		*"*	*8.00*		*102*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.38*		*"*	*8.00*		*105*	*81-136*			
Surrogate Toluene-d8	*8.12*		*"*	*8.00*		*102*	*88.8-117*			

SunStar Laboratories, Inc.

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/10/13 16:05

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-8-13 Page: 1 OF 1
Project Name: CENCO
Collector: Frane Sosic Client Project #: 1003-001-300
Batch #: T130812 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Total # of containers	Comments/Preservative	Laboratory ID #
LL_W4_040813	4-8-13	1200	GW	X	X	6		01
LL_503B_040813_01	4-8-13	1410	GW	X	X	6		02
LL_503B_040813_02	4-8-13	1420	GW	X	X	6		03
LL_707_040813	4-8-13	1543	GW	X	X	6		04
LL_TB_040813			Water		X	2		05

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
F. Sosic	4.8.13 16:00	4/8/13 16:00
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)

Total # of containers	26
Chain of Custody seals	N
Seals intact? Y/N/NA	N/A
Received good condition/cold	Y
Turn around time:	Standard

Notes
3.8°

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130812

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4/8/13 1600

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 4.0 °C +/- the CF (- 0.2°C) = 3.8 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒ Yes	☐ No*	☐ N/A
Custody Seals Intact on Cooler/Sample	☐ Yes	☐ No*	☒ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date 4/8/13

Comments:

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

12 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/09/13 16:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_17A_040913	T130820-01	Water	04/09/13 11:11	04/09/13 16:36
LL_17B_040913	T130820-02	Water	04/09/13 13:10	04/09/13 16:36
LL_17C_040913	T130820-03	Water	04/09/13 16:12	04/09/13 16:36
LL_TB_040913	T130820-04	Water	04/09/13 00:00	04/09/13 16:36

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17A_040913

T130820-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3041011	04/10/13	04/11/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17A_040913

T130820-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17A_040913

T130820-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*90.2 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*88.8-117*		"	"	"	"	

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17B_040913

T130820-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3041011	04/10/13	04/11/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*100 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17B_040913

T130820-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17B_040913

T130820-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*90.6 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17C_040913

T130820-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3041011	04/10/13	04/11/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*108 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17C_040913

T130820-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_17C_040913

T130820-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*94.6 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_TB_040913

T130820-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_TB_040913

T130820-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

LL_TB_040913

T130820-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3041012	04/10/13	04/10/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96.2 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*94.5 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041011 - EPA 5030 GC										
Blank (3041011-BLK1)				Prepared: 04/10/13 Analyzed: 04/11/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*89.8*		*"*	*100*		*89.8*	*65-135*			
LCS (3041011-BS1)				Prepared: 04/10/13 Analyzed: 04/11/13						
C6-C12 (GRO)	5110	50	ug/l	5520		92.6	75-125			
Surrogate 4-Bromofluorobenzene	*80.2*		*"*	*100*		*80.2*	*65-135*			
Matrix Spike (3041011-MS1)	**Source: T130820-01**			Prepared: 04/10/13 Analyzed: 04/11/13						
C6-C12 (GRO)	5000	50	ug/l	5520	27.7	90.1	65-135			
Surrogate 4-Bromofluorobenzene	*75.4*		*"*	*100*		*75.4*	*65-135*			
Matrix Spike Dup (3041011-MSD1)	**Source: T130820-01**			Prepared: 04/10/13 Analyzed: 04/11/13						
C6-C12 (GRO)	4960	50	ug/l	5520	27.7	89.4	65-135	0.853	20	
Surrogate 4-Bromofluorobenzene	*83.1*		*"*	*100*		*83.1*	*65-135*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041012 - EPA 5030 GCMS										
Blank (3041012-BLK1)				Prepared & Analyzed: 04/10/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Katherine Shields

Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041012 - EPA 5030 GCMS										
Blank (3041012-BLK1)				Prepared & Analyzed: 04/10/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*7.70*		"	*8.00*		*96.2*	*83.5-119*			
Surrogate Dibromofluoromethane	*6.06*		"	*8.00*		*75.8*	*81-136*			*S-GC*
Surrogate Toluene-d8	*7.73*		"	*8.00*		*96.6*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041012 - EPA 5030 GCMS										
LCS (3041012-BS1)				Prepared & Analyzed: 04/10/13						
Chlorobenzene	19.1	1.0	ug/l	20.0		95.7	75-125			
1,1-Dichloroethene	24.8	1.0	"	20.0		124	75-125			
Trichloroethene	21.8	1.0	"	20.0		109	75-125			
Benzene	21.2	0.50	"	20.0		106	75-125			
Toluene	19.6	0.50	"	20.0		98.0	75-125			
Surrogate 4-Bromofluorobenzene	*8.20*		*"*	*8.00*		*102*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.60*		*"*	*8.00*		*95.0*	*81-136*			
Surrogate Toluene-d8	*7.61*		*"*	*8.00*		*95.1*	*88.8-117*			
Matrix Spike (3041012-MS1)		**Source: T130819-01**		Prepared & Analyzed: 04/10/13						
Chlorobenzene	19.7	1.0	ug/l	20.0	ND	98.6	75-125			
1,1-Dichloroethene	26.8	1.0	"	20.0	ND	134	75-125			QM-05
Trichloroethene	22.1	1.0	"	20.0	ND	111	75-125			
Benzene	21.4	0.50	"	20.0	ND	107	75-125			
Toluene	20.2	0.50	"	20.0	ND	101	75-125			
Surrogate 4-Bromofluorobenzene	*7.59*		*"*	*8.00*		*94.9*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.69*		*"*	*8.00*		*96.1*	*81-136*			
Surrogate Toluene-d8	*7.87*		*"*	*8.00*		*98.4*	*88.8-117*			
Matrix Spike Dup (3041012-MSD1)		**Source: T130819-01**		Prepared & Analyzed: 04/10/13						
Chlorobenzene	23.0	1.0	ug/l	20.0	ND	115	75-125	15.3	20	
1,1-Dichloroethene	30.0	1.0	"	20.0	ND	150	75-125	11.2	20	QM-05
Trichloroethene	25.7	1.0	"	20.0	ND	128	75-125	14.8	20	QM-05
Benzene	25.3	0.50	"	20.0	ND	126	75-125	16.5	20	QM-05
Toluene	23.7	0.50	"	20.0	ND	118	75-125	15.8	20	
Surrogate 4-Bromofluorobenzene	*7.71*		*"*	*8.00*		*96.4*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.58*		*"*	*8.00*		*94.8*	*81-136*			
Surrogate Toluene-d8	*7.78*		*"*	*8.00*		*97.2*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/12/13 13:52

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-9-13 Page: 1 OF 1
Project Name: CENCO
Collector: Frane Sosic Client Project #: 1003-001-300
Batch #: T130820 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Total # of containers	Comments/Preservative	Laboratory ID #
LL_17A_040913	4-9-13	11:11	GW	X	X	6		01
LL_17B_040913	4-9-13	13:10	GW	X	X	6		02
LL_17C_040913	4-9-13	16:12	GW	X	X	6		03
LL_TB_040913			Water		X	2		04

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
F. Sosic	4.9.2013 16:30	4/9/13 16:36

Total # of containers	20
Chain of Custody seals	
Seals intact? Y/N/NA	
Received good condition/cold	3.1
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130820

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4.9.13 / 16:36

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.3 °C +/- the CF (- 0.2°C) = 3.1 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 4.9.13

Comments:

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

17 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/10/13 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_EW1_041013	T130836-01	Water	04/10/13 10:00	04/10/13 17:00
LL_703_041013	T130836-02	Water	04/10/13 12:45	04/10/13 17:00
LL_701_041013	T130836-03	Water	04/10/13 14:13	04/10/13 17:00
LL_702_041013	T130836-04	Water	04/10/13 15:42	04/10/13 17:00
LL_705_041013	T130836-05	Water	04/10/13 16:36	04/10/13 17:00
LL_TB_041013	T130836-06	Water	04/10/13 00:00	04/10/13 17:00

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_EW1_041013
T130836-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**1400**	50	ug/l	1	3041128	04/11/13	04/12/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*182 %*	*65-135*		"	"	"	"	*S-04*
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041124	04/11/13	04/11/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**5.9**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**10**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_EW1_041013

T130836-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041124	04/11/13	04/11/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**13**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**88**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**17**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**2.1**	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_EW1_041013

T130836-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3041124	04/11/13	04/11/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_703_041013

T130836-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3041128	04/11/13	04/12/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	ND	0.100	mg/l	1	3041618	04/11/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_703_041013

T130836-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
cis-1,2-Dichloroethene	**5.7**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_703_041013

T130836-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**560**	20	mg/l	1	3041122	04/11/13	04/12/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**383**	5.00	mg/l	10	3041121	04/11/13	04/11/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	04/11/13	"	
RSK-175									
Methane	**1.17**	1.00	ug/l	1	3041129	04/11/13	04/12/13	RSK-175	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_701_041013

T130836-03 (Water)

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	50	ug/l	1	3041128	04/11/13	04/12/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*107 %*	*65-135*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	**7.3**	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_701_041013

T130836-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**1.8**	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_701_041013

T130836-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_702_041013

T130836-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**2300**	50	ug/l	1	3041128	04/11/13	04/12/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*129 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	ND	0.100	mg/l	1	3041618	04/11/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**17**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**3.0**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	**2.1**	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	**4.4**	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	**1.5**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_702_041013

T130836-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
cis-1,2-Dichloroethene	**1.3**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	**13**	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**6.2**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	**1.8**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**15**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_702_041013

T130836-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**840**	20	mg/l	1	3041122	04/11/13	04/12/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**101**	5.00	mg/l	10	3041121	04/11/13	04/11/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	04/11/13	"	
RSK-175									
Methane	**757**	3.00	ug/l	3	3041129	04/11/13	04/12/13	RSK-175	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_705_041013

T130836-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**140**	50	ug/l	1	3041128	04/11/13	04/12/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*104 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	ND	0.100	mg/l	1	3041618	04/11/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	**1.8**	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_705_041013

T130836-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	**1.5**	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
cis-1,2-Dichloroethene	**7.8**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**1.9**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**2.0**	1.0	"	"	"	"	"	"	
Benzene	**0.97**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_705_041013

T130836-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**10**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.6 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**640**	20	mg/l	1	3041122	04/11/13	04/12/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**95.6**	5.00	mg/l	10	3041121	04/11/13	04/11/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	04/11/13	"	
RSK-175									
Methane	**99.3**	1.00	ug/l	1	3041129	04/11/13	04/12/13	RSK-175	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_TB_041013

T130836-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_TB_041013

T130836-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

LL_TB_041013

T130836-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3041124	04/11/13	04/12/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*88.8-117*		"	"	"	"	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041128 - EPA 5030 GC										
Blank (3041128-BLK1)				Prepared: 04/11/13 Analyzed: 04/12/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*106*		*"*	*100*		*106*	*65-135*			
LCS (3041128-BS1)				Prepared: 04/11/13 Analyzed: 04/12/13						
C6-C12 (GRO)	5210	50	ug/l	5520		94.4	75-125			
Surrogate 4-Bromofluorobenzene	*77.2*		*"*	*100*		*77.2*	*65-135*			
Matrix Spike (3041128-MS1)	**Source: T130836-01**			Prepared: 04/11/13 Analyzed: 04/12/13						
C6-C12 (GRO)	5900	50	ug/l	5520	1350	82.3	65-135			
Surrogate 4-Bromofluorobenzene	*110*		*"*	*100*		*110*	*65-135*			
Matrix Spike Dup (3041128-MSD1)	**Source: T130836-01**			Prepared: 04/11/13 Analyzed: 04/12/13						
C6-C12 (GRO)	5460	50	ug/l	5520	1350	74.5	65-135	7.61	20	
Surrogate 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*65-135*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041618 - EPA 3010A										
Blank (3041618-BLK1)				Prepared & Analyzed: 04/16/13						
Ferrous Iron	ND	0.100	mg/l							
Duplicate (3041618-DUP1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Ferrous Iron	0.0260	0.100	mg/l		0.0380			37.5	200	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041124 - EPA 5030 GCMS										
Blank (3041124-BLK1)				Prepared & Analyzed: 04/11/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041124 - EPA 5030 GCMS										
Blank (3041124-BLK1)				Prepared & Analyzed: 04/11/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.47*		*"*	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.13*		*"*	*8.00*		*102*	*81-136*			
Surrogate Toluene-d8	*8.22*		*"*	*8.00*		*103*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041124 - EPA 5030 GCMS										
LCS (3041124-BS1)				Prepared: 04/11/13 Analyzed: 04/12/13						
Chlorobenzene	20.0	1.0	ug/l	20.0		100	75-125			
1,1-Dichloroethene	21.7	1.0	"	20.0		109	75-125			
Trichloroethene	20.8	1.0	"	20.0		104	75-125			
Benzene	20.5	0.50	"	20.0		102	75-125			
Toluene	19.3	0.50	"	20.0		96.4	75-125			
Surrogate 4-Bromofluorobenzene	*8.35*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.42*		*"*	*8.00*		*105*	*81-136*			
Surrogate Toluene-d8	*8.14*		*"*	*8.00*		*102*	*88.8-117*			
Matrix Spike (3041124-MS1)		**Source: T130836-01**		Prepared: 04/11/13 Analyzed: 04/12/13						
Chlorobenzene	19.6	1.0	ug/l	20.0	ND	98.1	75-125			
1,1-Dichloroethene	22.3	1.0	"	20.0	ND	112	75-125			
Trichloroethene	19.4	1.0	"	20.0	ND	96.8	75-125			
Benzene	20.5	0.50	"	20.0	ND	102	75-125			
Toluene	18.7	0.50	"	20.0	ND	93.6	75-125			
Surrogate 4-Bromofluorobenzene	*7.42*		*"*	*8.00*		*92.8*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.08*		*"*	*8.00*		*114*	*81-136*			
Surrogate Toluene-d8	*7.89*		*"*	*8.00*		*98.6*	*88.8-117*			
Matrix Spike Dup (3041124-MSD1)		**Source: T130836-01**		Prepared: 04/11/13 Analyzed: 04/12/13						
Chlorobenzene	20.0	1.0	ug/l	20.0	ND	100	75-125	2.07	20	
1,1-Dichloroethene	21.4	1.0	"	20.0	ND	107	75-125	4.03	20	
Trichloroethene	19.2	1.0	"	20.0	ND	95.9	75-125	0.882	20	
Benzene	20.5	0.50	"	20.0	ND	103	75-125	0.244	20	
Toluene	18.9	0.50	"	20.0	ND	94.4	75-125	0.957	20	
Surrogate 4-Bromofluorobenzene	*7.52*		*"*	*8.00*		*94.0*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.52*		*"*	*8.00*		*106*	*81-136*			
Surrogate Toluene-d8	*8.00*		*"*	*8.00*		*100*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041122 - General Preparation										
Duplicate (3041122-DUP1)	**Source: T130836-02**			Prepared: 04/11/13 Analyzed: 04/12/13						
Total Alkalinity	570	20	mg/l		555			2.67	25	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041121 - General Preparation										
Blank (3041121-BLK1)				Prepared & Analyzed: 04/11/13						
Sulfate as SO4	ND	0.500	mg/l							
Nitrate as NO3	ND	0.500	"							
LCS (3041121-BS1)				Prepared & Analyzed: 04/11/13						
Sulfate as SO4	10.2	0.500	mg/l	10.0		102	75-125			
Nitrate as NO3	0.604	0.500	"	0.500		121	75-125			
Matrix Spike (3041121-MS1)	**Source: T130836-02**			Prepared & Analyzed: 04/11/13						
Sulfate as SO4	379	0.500	mg/l	10.0	383	NR	75-125			QM-02
Nitrate as NO3	0.621	0.500	"	0.500	ND	124	75-125			
Matrix Spike Dup (3041121-MSD1)	**Source: T130836-02**			Prepared & Analyzed: 04/11/13						
Sulfate as SO4	379	0.500	mg/l	10.0	383	NR	75-125	0.0314	20	QM-02
Nitrate as NO3	0.617	0.500	"	0.500	ND	123	75-125	0.646	20	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041129 - EPA 3810m Headspace										
Blank (3041129-BLK1)				Prepared: 04/11/13 Analyzed: 04/12/13						
Methane	ND	1.00	ug/l							
Duplicate (3041129-DUP1)		**Source: T130836-02**		Prepared: 04/11/13 Analyzed: 04/12/13						
Methane	1.19	1.00	ug/l		1.17			1.69	20	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 14:10

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
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Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 4-10-13 Page: 1 OF 1
Project Name: CENCO
Collector: Frane Sosic + AW Client Project #: 1003-001-300
Batch #: T130836 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane (8015)	Alkalinity	300 IC (Nitrate, Sulfate)	Ferrous Iron								Total # of containers	Comments/Preservative	Laboratory ID #
LL_EW1_041013	4.10.13	1000	GW	X	X												6		01
LL_703_041013	4.10.13	1245	GW	X	X	X	X	X	X								12		02
LL_701_041013	4.10.13	1413	GW	X	X												6		03
LL_702_041013	4.10.13	1542	GW	X	X	X	X	X	X								12		04
LL_705_041013	4.10.13	1636	GW	X	X	X	X	X	X								12		05
LL_TB_041013			Water														2		06

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
F. Sosic	4.10.13 17:00	4-10-13 17:00

Total # of containers	50
Chain of Custody seals	N
Seals intact? Y/N/NA	N/A
Received good condition/cold	Y 3.4°
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130836

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4/10/13 1700

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.6 °C +/- the CF (- 0.2°C) = 3.4 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date 4/10/13

Comments:

_____

_____

_____

_____

SunStar Laboratories, Inc.
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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

17 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/11/13 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_714_041113	T130847-01	Water	04/11/13 10:05	04/11/13 17:00
LL_713_041113_01	T130847-02	Water	04/11/13 10:05	04/11/13 17:00
LL_713_041113_02	T130847-03	Water	04/11/13 11:05	04/11/13 17:00
LL_709_041113	T130847-04	Water	04/11/13 13:50	04/11/13 17:00
LL_708_041113_01	T130847-05	Water	04/11/13 16:15	04/11/13 17:00
LL_708_041113_02	T130847-06	Water	04/11/13 16:20	04/11/13 17:00
LL_TB_041113	T130847-07	Water	04/11/13 00:00	04/11/13 17:00

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Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_714_041113

T130847-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**170**	50	ug/l	1	3041214	04/12/13	04/15/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*108 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**2.7**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_714_041113

T130847-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**7.8**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	**1.2**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**1.3**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_714_041113

T130847-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	**52**	10	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**7.2**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_713_041113_01

T130847-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**8200**	50	ug/l	1	3041214	04/12/13	04/15/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	**0.586**	0.100	mg/l	1	3041618	04/15/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**11**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**15**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.6**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_713_041113_01

T130847-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
cis-1,2-Dichloroethene	**2.0**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**110**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**6.8**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**190**	1.0	"	"	"	"	"	"	E-1
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**13**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1.5**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**4900**	50	"	100	"	"	"	"	
Toluene	**8.2**	0.50	"	1	"	"	"	"	
Ethylbenzene	**13**	0.50	"	"	"	"	"	"	
m,p-Xylene	**37**	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_713_041113_01

T130847-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
o-Xylene	**1.9**	0.50	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**310**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**760**	1.0	"	"	"	"	"	"	E-1
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**840**	20	mg/l	1	3041224	04/12/13	04/12/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**19.7**	0.500	mg/l	1	3041204	04/12/13	04/12/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	
RSK-175									
Methane	**4220**	10.0	ug/l	10	3041211	04/12/13	04/12/13	RSK-175	

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SunStar Laboratories, Inc.
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_713_041113_02

T130847-03 (Water)

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**8300**	50	ug/l	1	3041214	04/12/13	04/15/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*65-135*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**11**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**15**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.6**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.1**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_713_041113_02

T130847-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**110**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**6.7**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**190**	1.0	"	"	"	"	"	"	E-1
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**14**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1.5**	1.0	"	"	"	"	"	"	
Vinyl chloride	**1.2**	1.0	"	"	"	"	"	"	
Benzene	**5000**	50	"	100	"	"	"	"	
Toluene	**8.4**	0.50	"	1	"	"	"	"	
Ethylbenzene	**13**	0.50	"	"	"	"	"	"	
m,p-Xylene	**38**	1.0	"	"	"	"	"	"	
o-Xylene	**2.0**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**320**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_713_041113_02

T130847-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethyl tert-butyl ether	ND	2.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Methyl tert-butyl ether	**800**	1.0	"	"	"	"	"	"	E-1
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*88.8-117*		"	"	"	"	

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949.297.5020 Phone
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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_709_041113

T130847-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**850**	50	ug/l	1	3041214	04/12/13	04/15/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*117 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041208	04/12/13	04/15/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**4.9**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.0**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_709_041113

T130847-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3041208	04/12/13	04/15/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**25**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	**20**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**160**	10	"	"	"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_709_041113

T130847-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3041208	04/12/13	04/15/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.1**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*92.4 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_708_041113_01

T130847-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**25000**	250	ug/l	5	3041214	04/12/13	04/15/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*91.9 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	**1.23**	0.100	mg/l	1	3041618	04/15/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**7.6**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**2.5**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_708_041113_01

T130847-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
cis-1,2-Dichloroethene	**2.4**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**18**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**27**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**290**	1.0	"	"	"	"	"	"	E-1
n-Propylbenzene	**9.4**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**670**	50	"	50	"	"	"	"	
1,2,4-Trimethylbenzene	**1700**	50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	1	"	"	"	"	
Benzene	**1100**	25	"	50	"	"	"	"	
Toluene	**54**	0.50	"	1	"	"	"	"	
Ethylbenzene	**510**	25	"	50	"	"	"	"	
m,p-Xylene	**920**	50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_708_041113_01

T130847-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
o-Xylene	**27**	0.50	ug/l	1	3041208	04/12/13	04/13/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**350**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**790**	1.0	"	"	"	"	"	"	E-1
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.9 %*	*83.5-119*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*102 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*92.2 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**860**	20	mg/l	1	3041224	04/12/13	04/12/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**48.4**	0.500	mg/l	1	3041204	04/12/13	04/12/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	
RSK-175									
Methane	**4110**	10.0	ug/l	10	3041211	04/12/13	04/12/13	RSK-175	

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949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_708_041113_02

T130847-06 (Water)

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**240000**	2500	ug/l	50	3041214	04/12/13	04/15/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*146 %*	*65-135*		"	"	"	"	*S-01*

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3041208	04/12/13	04/15/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**130**	1.0	"	"	"	"	"	"	E-1
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.4**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_708_041113_02

T130847-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3041208	04/12/13	04/15/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**65**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**120**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**680**	1.0	"	"	"	"	"	"	E-1
n-Propylbenzene	**140**	50	"	50	"	"	"	"	
Styrene	ND	1.0	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**780**	50	"	50	"	"	"	"	
1,2,4-Trimethylbenzene	**2000**	50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	1	"	"	"	"	
Benzene	**990**	25	"	50	"	"	"	"	
Toluene	**54**	0.50	"	1	"	"	"	"	
Ethylbenzene	**430**	25	"	50	"	"	"	"	
m,p-Xylene	**890**	50	"	"	"	"	"	"	
o-Xylene	**24**	0.50	"	1	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**260**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_708_041113_02

T130847-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethyl tert-butyl ether	ND	2.0	ug/l	1	3041208	04/12/13	04/15/13	EPA 8260B	
Methyl tert-butyl ether	**670**	1.0	"	"	"	"	"	"	E-1
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*42.8 %*	*83.5-119*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*94.8 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*95.5 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_TB_041113

T130847-07 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_TB_041113

T130847-07 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

LL_TB_041113

T130847-07 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96.6 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
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Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041214 - EPA 5030 GC										
Blank (3041214-BLK1)				Prepared: 04/12/13 Analyzed: 04/15/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*121*		*"*	*100*		*121*	*65-135*			
LCS (3041214-BS1)				Prepared: 04/12/13 Analyzed: 04/15/13						
C6-C12 (GRO)	5000	50	ug/l	5520		90.6	75-125			
Surrogate 4-Bromofluorobenzene	*93.7*		*"*	*100*		*93.7*	*65-135*			
Matrix Spike (3041214-MS1)		**Source: T130851-03**		Prepared: 04/12/13 Analyzed: 04/15/13						
C6-C12 (GRO)	4610	50	ug/l	5520	ND	83.6	65-135			
Surrogate 4-Bromofluorobenzene	*88.4*		*"*	*100*		*88.4*	*65-135*			
Matrix Spike Dup (3041214-MSD1)		**Source: T130851-03**		Prepared: 04/12/13 Analyzed: 04/15/13						
C6-C12 (GRO)	4780	50	ug/l	5520	ND	86.6	65-135	3.53	20	
Surrogate 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*65-135*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041618 - EPA 3010A										
Blank (3041618-BLK1)				Prepared & Analyzed: 04/16/13						
Ferrous Iron	ND	0.100	mg/l							
Duplicate (3041618-DUP1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Ferrous Iron	0.0260	0.100	mg/l		0.0380			37.5	200	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041208 - EPA 5030 GCMS										
Blank (3041208-BLK1)				Prepared: 04/12/13 Analyzed: 04/13/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041208 - EPA 5030 GCMS										
Blank (3041208-BLK1)				Prepared: 04/12/13 Analyzed: 04/13/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.72*		*"*	*8.00*		*109*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.53*		*"*	*8.00*		*107*	*81-136*			
Surrogate Toluene-d8	*8.23*		*"*	*8.00*		*103*	*88.8-117*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041208 - EPA 5030 GCMS										
LCS (3041208-BS1)				Prepared: 04/12/13 Analyzed: 04/13/13						
Chlorobenzene	20.1	1.0	ug/l	20.0		100	75-125			
1,1-Dichloroethene	21.9	1.0	"	20.0		110	75-125			
Trichloroethene	20.9	1.0	"	20.0		104	75-125			
Benzene	21.9	0.50	"	20.0		110	75-125			
Toluene	17.3	0.50	"	20.0		86.4	75-125			
Surrogate 4-Bromofluorobenzene	*8.40*		*"*	*8.00*		*105*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.59*		*"*	*8.00*		*120*	*81-136*			
Surrogate Toluene-d8	*7.80*		*"*	*8.00*		*97.5*	*88.8-117*			
Matrix Spike (3041208-MS1)		**Source: T130847-01**		Prepared: 04/12/13 Analyzed: 04/13/13						
Chlorobenzene	19.3	1.0	ug/l	20.0	ND	96.7	75-125			
1,1-Dichloroethene	20.3	1.0	"	20.0	ND	101	75-125			
Trichloroethene	18.7	1.0	"	20.0	ND	93.3	75-125			
Benzene	22.6	0.50	"	20.0	1.34	106	75-125			
Toluene	18.5	0.50	"	20.0	ND	92.4	75-125			
Surrogate 4-Bromofluorobenzene	*8.44*		*"*	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.21*		*"*	*8.00*		*115*	*81-136*			
Surrogate Toluene-d8	*8.24*		*"*	*8.00*		*103*	*88.8-117*			
Matrix Spike Dup (3041208-MSD1)		**Source: T130847-01**		Prepared: 04/12/13 Analyzed: 04/13/13						
Chlorobenzene	19.6	1.0	ug/l	20.0	ND	98.2	75-125	1.59	20	
1,1-Dichloroethene	19.5	1.0	"	20.0	ND	97.7	75-125	3.77	20	
Trichloroethene	18.8	1.0	"	20.0	ND	94.2	75-125	0.907	20	
Benzene	22.4	0.50	"	20.0	1.34	106	75-125	0.533	20	
Toluene	18.9	0.50	"	20.0	ND	94.6	75-125	2.35	20	
Surrogate 4-Bromofluorobenzene	*8.33*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.28*		*"*	*8.00*		*116*	*81-136*			
Surrogate Toluene-d8	*8.41*		*"*	*8.00*		*105*	*88.8-117*			

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041526 - EPA 5030 GCMS										
Blank (3041526-BLK1)				Prepared: 04/15/13 Analyzed: 04/16/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

SunStar Laboratories, Inc.

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041526 - EPA 5030 GCMS										
Blank (3041526-BLK1)				Prepared: 04/15/13 Analyzed: 04/16/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.26*		*"*	*8.00*		*103*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.73*		*"*	*8.00*		*96.6*	*81-136*			
Surrogate Toluene-d8	*8.51*		*"*	*8.00*		*106*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041526 - EPA 5030 GCMS										
LCS (3041526-BS1)				Prepared: 04/15/13 Analyzed: 04/16/13						
Chlorobenzene	20.0	1.0	ug/l	20.0		99.8	75-125			
1,1-Dichloroethene	22.2	1.0	"	20.0		111	75-125			
Trichloroethene	20.8	1.0	"	20.0		104	75-125			
Benzene	21.1	0.50	"	20.0		106	75-125			
Toluene	19.7	0.50	"	20.0		98.7	75-125			
Surrogate 4-Bromofluorobenzene	*8.47*		*"*	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.25*		*"*	*8.00*		*103*	*81-136*			
Surrogate Toluene-d8	*8.32*		*"*	*8.00*		*104*	*88.8-117*			
Matrix Spike (3041526-MS1)		**Source: T130856-03**		Prepared: 04/15/13 Analyzed: 04/16/13						
Chlorobenzene	19.6	1.0	ug/l	20.0	ND	98.0	75-125			
1,1-Dichloroethene	22.5	1.0	"	20.0	ND	113	75-125			
Trichloroethene	20.2	1.0	"	20.0	ND	101	75-125			
Benzene	21.5	0.50	"	20.0	ND	108	75-125			
Toluene	19.8	0.50	"	20.0	ND	99.1	75-125			
Surrogate 4-Bromofluorobenzene	*8.37*		*"*	*8.00*		*105*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.67*		*"*	*8.00*		*108*	*81-136*			
Surrogate Toluene-d8	*8.29*		*"*	*8.00*		*104*	*88.8-117*			
Matrix Spike Dup (3041526-MSD1)		**Source: T130856-03**		Prepared: 04/15/13 Analyzed: 04/16/13						
Chlorobenzene	19.4	1.0	ug/l	20.0	ND	97.2	75-125	0.717	20	
1,1-Dichloroethene	22.2	1.0	"	20.0	ND	111	75-125	1.38	20	
Trichloroethene	20.3	1.0	"	20.0	ND	102	75-125	0.444	20	
Benzene	21.4	0.50	"	20.0	ND	107	75-125	0.233	20	
Toluene	19.9	0.50	"	20.0	ND	99.6	75-125	0.553	20	
Surrogate 4-Bromofluorobenzene	*8.55*		*"*	*8.00*		*107*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.55*		*"*	*8.00*		*107*	*81-136*			
Surrogate Toluene-d8	*8.40*		*"*	*8.00*		*105*	*88.8-117*			

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Katherine Shields

Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041224 - General Preparation										
Duplicate (3041224-DUP1)		**Source: T130847-05**		Prepared & Analyzed: 04/12/13						
Total Alkalinity	850	20	mg/l		855			0.587	25	

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949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041204 - General Preparation										
Blank (3041204-BLK1)				Prepared: 04/12/13 Analyzed: 04/15/13						
Fluoride	ND	0.500	mg/l							
Chloride	ND	0.500	"							
Nitrite as NO2	ND	0.500	"							
Sulfate as SO4	ND	0.500	"							
Nitrate as NO3	ND	0.500	"							
LCS (3041204-BS1)				Prepared & Analyzed: 04/12/13						
Chloride	10.3	0.500	mg/l	10.0		103	75-125			
Sulfate as SO4	10.8	0.500	"	10.0		108	75-125			
Nitrate as NO3	0.579	0.500	"	0.500		116	75-125			
Matrix Spike (3041204-MS1)		**Source: T130845-11**		Prepared & Analyzed: 04/12/13						
Chloride	17.9	0.500	mg/l	10.0	7.31	106	75-125			
Sulfate as SO4	10.3	0.500	"	10.0	0.962	93.0	75-125			
Nitrate as NO3	0.732	0.500	"	0.500	0.247	97.0	75-125			
Matrix Spike Dup (3041204-MSD1)		**Source: T130845-11**		Prepared & Analyzed: 04/12/13						
Chloride	17.8	0.500	mg/l	10.0	7.31	105	75-125	0.527	20	
Sulfate as SO4	10.2	0.500	"	10.0	0.962	92.7	75-125	0.371	20	
Nitrate as NO3	0.728	0.500	"	0.500	0.247	96.2	75-125	0.548	20	

SunStar Laboratories, Inc.

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Katherine Shields

Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041211 - EPA 3810m Headspace										
Blank (3041211-BLK1)				Prepared & Analyzed: 04/12/13						
Methane	ND	1.00	ug/l							
Duplicate (3041211-DUP1)		**Source: T130847-02**		Prepared & Analyzed: 04/12/13						
Methane	4190	10.0	ug/l		4220			0.652	20	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/17/13 17:00

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
E-1	The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 04/11/2013 Page: 1 OF 1
Project Name: CENCO
Collector: ~~Frano Sosic~~ AW Client Project #: 1003-001-300
Batch #: T130847 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	METHANE (8015)	ALKALINITY	BOD IC (NITRATE, SULFATE)	FERROUS IRON							Total # of containers	Comments/Preservative	Laboratory ID #
LL-714-041113	04/11/13	1005	GW	X	X											6		01
LL-713-041113-01	"	1055	"	X	X	X	X	X	X							12		02
LL-713-041113-02	"	1105	"	X	X											6		03
LL-709-041113	"	1350	"	X	X											6		04
LL-708-041113-01	"	1615	"	X	X	X	X	X	X							12		05
LL-708-041113-02	↓	1620	↓	X	X											6		06
LL-TB-041113	—	—	WATER													2		07

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
T.A.W	04/11/13 1700	4/11/13 17:00
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)

Total # of containers	50
Chain of Custody seals	NA
Seals intact? Y/N/NA	NA
Received good condition/cold	3.2
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

4.18.13

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130847

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4/11/13 17:00

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.4 °C +/- the CF (- 0.2°C) = 3.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date BC 4/12/13

Comments:

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

19 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/12/13 16:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_710_041213	T130856-01	Water	04/12/13 09:25	04/12/13 16:34
LL_711_041213	T130856-02	Water	04/12/13 10:20	04/12/13 16:34
LL_715_041213	T130856-03	Water	04/12/13 12:15	04/12/13 16:34
LL_712_041213	T130856-04	Water	04/12/13 14:20	04/12/13 16:34
LL_TB_041213	T130856-05	Water	04/12/13 00:00	04/12/13 16:34

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_710_041213

T130856-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**130**	50	ug/l	1	3041527	04/15/13	04/16/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*124 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	**3.6**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	**41**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**16**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1.7**	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_710_041213

T130856-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**75**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**89**	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_710_041213

T130856-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tert-butyl alcohol	ND	10	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_711_041213

T130856-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**25000**	50	ug/l	1	3041527	04/15/13	04/16/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	**0.734**	0.100	mg/l	1	3041618	04/15/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**27**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**2.6**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_711_041213

T130856-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
cis-1,2-Dichloroethene	**2.5**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**160**	100	"	100	"	"	"	"	
p-Isopropyltoluene	**4.4**	1.0	"	1	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**440**	100	"	100	"	"	"	"	
n-Propylbenzene	**270**	100	"	"	"	"	"	"	
Styrene	ND	1.0	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**200**	100	"	100	"	"	"	"	
1,2,4-Trimethylbenzene	**640**	100	"	"	"	"	"	"	
Vinyl chloride	**5.9**	1.0	"	1	"	"	"	"	
Benzene	**2000**	50	"	100	"	"	"	"	
Toluene	**1500**	50	"	"	"	"	"	"	
Ethylbenzene	**450**	50	"	"	"	"	"	"	
m,p-Xylene	**2000**	100	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_711_041213

T130856-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
o-Xylene	**720**	50	ug/l	100	3041526	04/15/13	04/16/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.1 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.8 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**840**	20	mg/l	1	3041525	04/15/13	04/15/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**0.932**	0.500	mg/l	1	3041507	04/15/13	04/15/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	O-07
RSK-175									
Methane	**3590**	10.0	ug/l	10	3041506	04/15/13	04/15/13	RSK-175	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_715_041213

T130856-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	50	ug/l	1	3041527	04/15/13	04/16/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*123 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	ND	0.100	mg/l	1	3041618	04/15/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_715_041213

T130856-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_715_041213

T130856-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**540**	20	mg/l	1	3041525	04/15/13	04/15/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**138**	2.50	mg/l	5	3041507	04/15/13	04/15/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	04/15/13	"	O-07
RSK-175									
Methane	**48.9**	1.00	ug/l	1	3041506	04/15/13	04/15/13	RSK-175	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

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T130856-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**5800**	50	ug/l	1	3041527	04/15/13	04/16/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**8.8**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**14**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.9**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.4**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_712_041213

T130856-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**52**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**2.7**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**36**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**51**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**46**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**130**	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**540**	25	"	50	"	"	"	"	
Toluene	**56**	0.50	"	1	"	"	"	"	
Ethylbenzene	**93**	0.50	"	"	"	"	"	"	
m,p-Xylene	**390**	1.0	"	"	"	"	"	"	
o-Xylene	**68**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_712_041213

T130856-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethyl tert-butyl ether	ND	2.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Methyl tert-butyl ether	**180**	1.0	"	"	"	"	"	"	E-1
Surrogate: 4-Bromofluorobenzene		*101 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.1 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_TB_041213

T130856-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_TB_041213

T130856-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3041526	04/15/13	04/16/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

LL_TB_041213

T130856-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene	*107 %*	*83.5-119*	*3041526*	*04/15/13*	*04/16/13*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*97.6 %*	*81-136*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8	*106 %*	*88.8-117*	*"*	*"*	*"*	*"*	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041527 - EPA 5030 GC										
Blank (3041527-BLK1)				Prepared: 04/15/13 Analyzed: 04/16/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*120*		*"*	*100*		*120*	*65-135*			
LCS (3041527-BS1)				Prepared: 04/15/13 Analyzed: 04/16/13						
C6-C12 (GRO)	4610	50	ug/l	5520		83.5	75-125			
Surrogate 4-Bromofluorobenzene	*93.4*		*"*	*100*		*93.4*	*65-135*			
Matrix Spike (3041527-MS1)	**Source: T130856-01**			Prepared: 04/15/13 Analyzed: 04/16/13						
C6-C12 (GRO)	5050	50	ug/l	5520	133	89.0	65-135			
Surrogate 4-Bromofluorobenzene	*87.8*		*"*	*100*		*87.8*	*65-135*			
Matrix Spike Dup (3041527-MSD1)	**Source: T130856-01**			Prepared: 04/15/13 Analyzed: 04/16/13						
C6-C12 (GRO)	5230	50	ug/l	5520	133	92.3	65-135	3.53	20	
Surrogate 4-Bromofluorobenzene	*101*		*"*	*100*		*101*	*65-135*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041618 - EPA 3010A										
Blank (3041618-BLK1)				Prepared & Analyzed: 04/16/13						
Ferrous Iron	ND	0.100	mg/l							
Duplicate (3041618-DUP1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Ferrous Iron	0.0260	0.100	mg/l		0.0380			37.5	200	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041526 - EPA 5030 GCMS										
Blank (3041526-BLK1)				Prepared: 04/15/13 Analyzed: 04/16/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041526 - EPA 5030 GCMS										
Blank (3041526-BLK1)				Prepared: 04/15/13 Analyzed: 04/16/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.26*		*"*	*8.00*		*103*	*83.5-119*			
Surrogate Dibromofluoromethane	*7.73*		*"*	*8.00*		*96.6*	*81-136*			
Surrogate Toluene-d8	*8.51*		*"*	*8.00*		*106*	*88.8-117*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041526 - EPA 5030 GCMS										
LCS (3041526-BS1)				Prepared: 04/15/13 Analyzed: 04/16/13						
Chlorobenzene	20.0	1.0	ug/l	20.0		99.8	75-125			
1,1-Dichloroethene	22.2	1.0	"	20.0		111	75-125			
Trichloroethene	20.8	1.0	"	20.0		104	75-125			
Benzene	21.1	0.50	"	20.0		106	75-125			
Toluene	19.7	0.50	"	20.0		98.7	75-125			
Surrogate 4-Bromofluorobenzene	*8.47*		*"*	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.25*		*"*	*8.00*		*103*	*81-136*			
Surrogate Toluene-d8	*8.32*		*"*	*8.00*		*104*	*88.8-117*			
Matrix Spike (3041526-MS1)		**Source: T130856-03**		Prepared: 04/15/13 Analyzed: 04/16/13						
Chlorobenzene	19.6	1.0	ug/l	20.0	ND	98.0	75-125			
1,1-Dichloroethene	22.5	1.0	"	20.0	ND	113	75-125			
Trichloroethene	20.2	1.0	"	20.0	ND	101	75-125			
Benzene	21.5	0.50	"	20.0	ND	108	75-125			
Toluene	19.8	0.50	"	20.0	ND	99.1	75-125			
Surrogate 4-Bromofluorobenzene	*8.37*		*"*	*8.00*		*105*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.67*		*"*	*8.00*		*108*	*81-136*			
Surrogate Toluene-d8	*8.29*		*"*	*8.00*		*104*	*88.8-117*			
Matrix Spike Dup (3041526-MSD1)		**Source: T130856-03**		Prepared: 04/15/13 Analyzed: 04/16/13						
Chlorobenzene	19.4	1.0	ug/l	20.0	ND	97.2	75-125	0.717	20	
1,1-Dichloroethene	22.2	1.0	"	20.0	ND	111	75-125	1.38	20	
Trichloroethene	20.3	1.0	"	20.0	ND	102	75-125	0.444	20	
Benzene	21.4	0.50	"	20.0	ND	107	75-125	0.233	20	
Toluene	19.9	0.50	"	20.0	ND	99.6	75-125	0.553	20	
Surrogate 4-Bromofluorobenzene	*8.55*		*"*	*8.00*		*107*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.55*		*"*	*8.00*		*107*	*81-136*			
Surrogate Toluene-d8	*8.40*		*"*	*8.00*		*105*	*88.8-117*			

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Wendy Hsiao For Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041525 - General Preparation										
Duplicate (3041525-DUP1)		**Source: T130856-03**		Prepared & Analyzed: 04/15/13						
Total Alkalinity	555	20	mg/l		545			1.82	25	

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949.297.5020 Phone
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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041507 - General Preparation										
Blank (3041507-BLK1)				Prepared & Analyzed: 04/15/13						
Sulfate as SO4	ND	0.500	mg/l							
Nitrate as NO3	ND	0.500	"							
LCS (3041507-BS1)				Prepared & Analyzed: 04/15/13						
Sulfate as SO4	10.5	0.500	mg/l	10.0		105	75-125			
Nitrate as NO3	0.574	0.500	"	0.500		115	75-125			
Matrix Spike (3041507-MS1)		**Source: T130856-02**		Prepared & Analyzed: 04/15/13						
Sulfate as SO4	10.5	0.500	mg/l	10.0	0.932	96.1	75-125			
Nitrate as NO3	0.585	0.500	"	0.500	ND	117	75-125			
Matrix Spike Dup (3041507-MSD1)		**Source: T130856-02**		Prepared & Analyzed: 04/15/13						
Sulfate as SO4	10.2	0.500	mg/l	10.0	0.932	93.0	75-125	2.96	20	
Nitrate as NO3	0.566	0.500	"	0.500	ND	113	75-125	3.30	20	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041506 - EPA 3810m Headspace										
Blank (3041506-BLK1)				Prepared & Analyzed: 04/15/13						
Methane	ND	1.00	ug/l							
Duplicate (3041506-DUP1)		**Source: T130856-02**		Prepared & Analyzed: 04/15/13						
Methane	3380	10.0	ug/l		3590			6.06	20	

Wendy Hsiao For Katherine Shields, Jr. Project Manager

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/19/13 15:40

Notes and Definitions

O-07	The sample was analyzed outside the EPA recommended holding time of 48 hours.
E-1	The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
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Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 04/12/2013 Page: 1 OF 1
Project Name: CENCO
Collector: ~~Frane Sosic~~ AW Client Project #: 1003-001-300
Batch #: T130856 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	METHANE (8015)	ALKALINITY	300 IC (NITRATE, SULFATE)	FERROUS IRON							Total # of containers	Comments/Preservative	Laboratory ID #
LL-710-041213	04/12/13	0925	GW	X	X											6		01
LL-711-041213		1020		X	X	X	X	X	X							12		02
LL-715-041213		1215		X	X	X	X	X	X							12		03
LL-712-041213	↓	1420	↓	X	X											6		04
LL-TB-041213	—	—	WATER													2		05

Relinquished by: (signature) T.A.	Date / Time 04/12/13 16:34	Received by: (Sign / Date / Time) 4.12.13 16:34	Total # of containers 38
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Chain of Custody seals
			Seals intact? Y/N/NA
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Received good condition/cold 4.6
			Turn around time: Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

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SAMPLE RECEIVING REVIEW SHEET

BATCH # T130856

Client Name: Murex Project: Cenco

Received by: Sunny Date/Time Received: 4.12.13 / 16:34

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 4.8 °C +/- the CF (- 0.2°C) = 4.6 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐**No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 4.12.13

Comments:

_____

_____

_____

_____

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

22 April 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861

RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 04/15/13 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields
Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_706_041513_01	T130862-01	Water	04/15/13 09:20	04/15/13 15:15
LL_706_041513_02	T130862-02	Water	04/15/13 09:30	04/15/13 15:15
LL_704_041513	T130862-03	Water	04/15/13 11:30	04/15/13 15:15
LL_TB_041513	T130862-04	Water	04/15/13 11:30	04/15/13 15:15

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Katherine Shields

Katherine Shields, Jr. Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_706_041513_01
T130862-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**260**	50	ug/l	1	3041617	04/16/13	04/17/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*109 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	ND	0.100	mg/l	1	3041618	04/16/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Katherine Shields, Jr. Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_706_041513_01

T130862-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
cis-1,2-Dichloroethene	**4.0**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**1.0**	1.0	"	"	"	"	"	"	
Benzene	**5.9**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_706_041513_01

T130862-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**54**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.8**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99.9 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**570**	20	mg/l	1	3041614	04/16/13	04/16/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**77.9**	1.00	mg/l	2	3041611	04/16/13	04/16/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	04/16/13	"	
RSK-175									
Methane	**461**	10.0	ug/l	10	3041619	04/16/13	04/18/13	RSK-175	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_706_041513_02

T130862-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**250**	50	ug/l	1	3041617	04/16/13	04/17/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*105 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4.9**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Katherine Shields

Katherine Shields, Jr. Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_706_041513_02

T130862-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**1.5**	1.0	"	"	"	"	"	"	
Benzene	**5.1**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**61**	10	"	"	"	"	"	"	

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LL_706_041513_02

T130862-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-isopropyl ether	ND	2.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**3.2**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	

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LL_704_041513

T130862-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**3900**	50	ug/l	1	3041617	04/16/13	04/17/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*65-135*		"	"	"	"	
Metals by SM 3500 Series Methods									
Ferrous Iron	**0.201**	0.100	mg/l	1	3041618	04/16/13	04/16/13	EPA6010/SM3500	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**7.9**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**2.4**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	**3.2**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	**6.1**	0.50	"	"	"	"	"	"	

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Providing Quality Analytical Services Nationwide

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Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_704_041513

T130862-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
cis-1,2-Dichloroethene	**3.0**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**75**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**12**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**57**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**83**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**170**	25	"	25	"	"	"	"	
1,2,4-Trimethylbenzene	**530**	25	"	"	"	"	"	"	
Vinyl chloride	**1.1**	1.0	"	1	"	"	"	"	
Benzene	**420**	0.50	"	"	"	"	"	"	E-1
Toluene	**29**	0.50	"	"	"	"	"	"	
Ethylbenzene	**200**	12	"	25	"	"	"	"	
m,p-Xylene	**300**	25	"	"	"	"	"	"	

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T130862-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
o-Xylene	**10**	0.50	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**97**	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*88.8-117*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Total Alkalinity	**820**	20	mg/l	1	3041614	04/16/13	04/16/13	EPA 310.1	
Anions by EPA Method 300.0									
Sulfate as SO4	**16.4**	0.500	mg/l	1	3041611	04/16/13	04/16/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	
RSK-175									
Methane	**1970**	25.0	ug/l	25	3041619	04/16/13	04/18/13	RSK-175	

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

LL_TB_041513

T130862-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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T130862-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**1.2**	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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T130862-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3041616	04/16/13	04/17/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88.8-117*		"	"	"	"	

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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041617 - EPA 5030 GC										
Blank (3041617-BLK1)				Prepared: 04/16/13 Analyzed: 04/17/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	*117*		*"*	*100*		*117*	*65-135*			
LCS (3041617-BS1)				Prepared: 04/16/13 Analyzed: 04/17/13						
C6-C12 (GRO)	5470	50	ug/l	5520		99.1	75-125			
Surrogate 4-Bromofluorobenzene	*70.2*		*"*	*100*		*70.2*	*65-135*			
Matrix Spike (3041617-MS1)		**Source: T130862-01**		Prepared: 04/16/13 Analyzed: 04/17/13						
C6-C12 (GRO)	5770	50	ug/l	5520	265	99.8	65-135			
Surrogate 4-Bromofluorobenzene	*74.8*		*"*	*100*		*74.8*	*65-135*			
Matrix Spike Dup (3041617-MSD1)		**Source: T130862-01**		Prepared: 04/16/13 Analyzed: 04/17/13						
C6-C12 (GRO)	5210	50	ug/l	5520	265	89.7	65-135	10.2	20	
Surrogate 4-Bromofluorobenzene	*71.7*		*"*	*100*		*71.7*	*65-135*			

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Katherine Shields, Jr. Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041618 - EPA 3010A										
Blank (3041618-BLK1)				Prepared & Analyzed: 04/16/13						
Ferrous Iron	ND	0.100	mg/l							
Duplicate (3041618-DUP1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Ferrous Iron	0.0260	0.100	mg/l		0.0380			37.5	200	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041616 - EPA 5030 GCMS										
Blank (3041616-BLK1)				Prepared & Analyzed: 04/16/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041616 - EPA 5030 GCMS										
Blank (3041616-BLK1)				Prepared & Analyzed: 04/16/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	*8.73*		*"*	*8.00*		*109*	*83.5-119*			
Surrogate Dibromofluoromethane	*8.25*		*"*	*8.00*		*103*	*81-136*			
Surrogate Toluene-d8	*8.41*		*"*	*8.00*		*105*	*88.8-117*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041616 - EPA 5030 GCMS										
LCS (3041616-BS1)				Prepared: 04/16/13 Analyzed: 04/17/13						
Chlorobenzene	20.1	1.0	ug/l	20.0		100	75-125			
1,1-Dichloroethene	25.2	1.0	"	20.0		126	75-125			QM-13
Trichloroethene	23.2	1.0	"	20.0		116	75-125			
Benzene	23.8	0.50	"	20.0		119	75-125			
Toluene	19.0	0.50	"	20.0		95.2	75-125			
Surrogate 4-Bromofluorobenzene	*8.44*		"	*8.00*		*106*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.13*		"	*8.00*		*114*	*81-136*			
Surrogate Toluene-d8	*8.39*		"	*8.00*		*105*	*88.8-117*			
Matrix Spike (3041616-MS1)		**Source: T130862-01**		Prepared: 04/16/13 Analyzed: 04/17/13						
Chlorobenzene	19.2	1.0	ug/l	20.0	ND	96.0	75-125			
1,1-Dichloroethene	24.1	1.0	"	20.0	ND	121	75-125			
Trichloroethene	21.3	1.0	"	20.0	ND	106	75-125			
Benzene	29.1	0.50	"	20.0	5.94	116	75-125			
Toluene	20.2	0.50	"	20.0	0.350	99.5	75-125			
Surrogate 4-Bromofluorobenzene	*8.31*		"	*8.00*		*104*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.22*		"	*8.00*		*115*	*81-136*			
Surrogate Toluene-d8	*8.30*		"	*8.00*		*104*	*88.8-117*			
Matrix Spike Dup (3041616-MSD1)		**Source: T130862-01**		Prepared: 04/16/13 Analyzed: 04/17/13						
Chlorobenzene	21.2	1.0	ug/l	20.0	ND	106	75-125	10.0	20	
1,1-Dichloroethene	26.1	1.0	"	20.0	ND	130	75-125	7.76	20	QM-13
Trichloroethene	21.8	1.0	"	20.0	ND	109	75-125	2.23	20	
Benzene	30.8	0.50	"	20.0	5.94	124	75-125	5.51	20	
Toluene	21.0	0.50	"	20.0	0.350	104	75-125	3.87	20	
Surrogate 4-Bromofluorobenzene	*8.59*		"	*8.00*		*107*	*83.5-119*			
Surrogate Dibromofluoromethane	*9.49*		"	*8.00*		*119*	*81-136*			
Surrogate Toluene-d8	*8.13*		"	*8.00*		*102*	*88.8-117*			

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041614 - General Preparation										
Duplicate (3041614-DUP1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Total Alkalinity	595	20	mg/l		570			4.29	25	

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949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041611 - General Preparation										
Blank (3041611-BLK1)				Prepared & Analyzed: 04/16/13						
Sulfate as SO4	ND	0.500	mg/l							
Nitrate as NO3	ND	0.500	"							
LCS (3041611-BS1)				Prepared & Analyzed: 04/16/13						
Sulfate as SO4	9.88	0.500	mg/l	10.0		98.8	75-125			
Nitrate as NO3	0.531	0.500	"	0.500		106	75-125			
Matrix Spike (3041611-MS1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Sulfate as SO4	84.2	0.500	mg/l	10.0	77.9	62.9	75-125			QM-02
Nitrate as NO3	0.601	0.500	"	0.500	ND	120	75-125			
Matrix Spike Dup (3041611-MSD1)		**Source: T130862-01**		Prepared & Analyzed: 04/16/13						
Sulfate as SO4	84.8	0.500	mg/l	10.0	77.9	69.0	75-125	0.726	20	QM-02
Nitrate as NO3	0.635	0.500	"	0.500	ND	127	75-125	5.50	20	QM-05

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041619 - EPA 3810m Headspace										
Blank (3041619-BLK1)				Prepared: 04/16/13 Analyzed: 04/18/13						
Methane	ND	1.00	ug/l							
Duplicate (3041619-DUP1)	**Source: T130862-01**			Prepared: 04/16/13 Analyzed: 04/18/13						
Methane	486	10.0	ug/l		461			5.11	20	

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-200	**Reported:**
Irvine CA, 92861	Project Manager: Jeremy Squire	04/22/13 15:43

Notes and Definitions

QM-13	Spike recovery for this analyte was bias high in the LCS and/or MS/MSD. Instrument blank, method blank and all samples were ND. No negative impact on data is expected.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
E-1	The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 04/15/2013 Page: 1 OF 1
Project Name: CENCO
Collector: ~~Frano Sosic~~ AW Client Project #: 1003-001-300
Batch #: T130862 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	METHANE (8015)	ALKALINITY	300 IC (NITRATE, SULFATE)	FERROUS (I202							Total # of containers	Comments/Preservative	Laboratory ID #
LL-706-041513-01	04/15/13	0920	GW	X	X	X	X	X	X							12		01
LL-706-041513-02	↓	0930	↓	X	X											6		02
LL-704-041513	↓	1130	↓	X	X	X	X	X	X							12		03
LL-TB-041513	—	—	WATER		X											2		04

Relinquished by: (signature) T.A.	Date / Time 04/15/13 1515	Received by: (Sign / Date / Time)	4/16/13 11:15
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	

Total # of containers	32
Chain of Custody seals	NA
Seals intact? Y/N/NA	NA
Received good condition/cold	5.6
Turn around time:	Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130862

Client Name: Murex Project: Cenco

Received by: Patrick Date/Time Received: 4/15/13 1515

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 5.8 °C +/- the CF (- 0.2°C) = 5.6 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

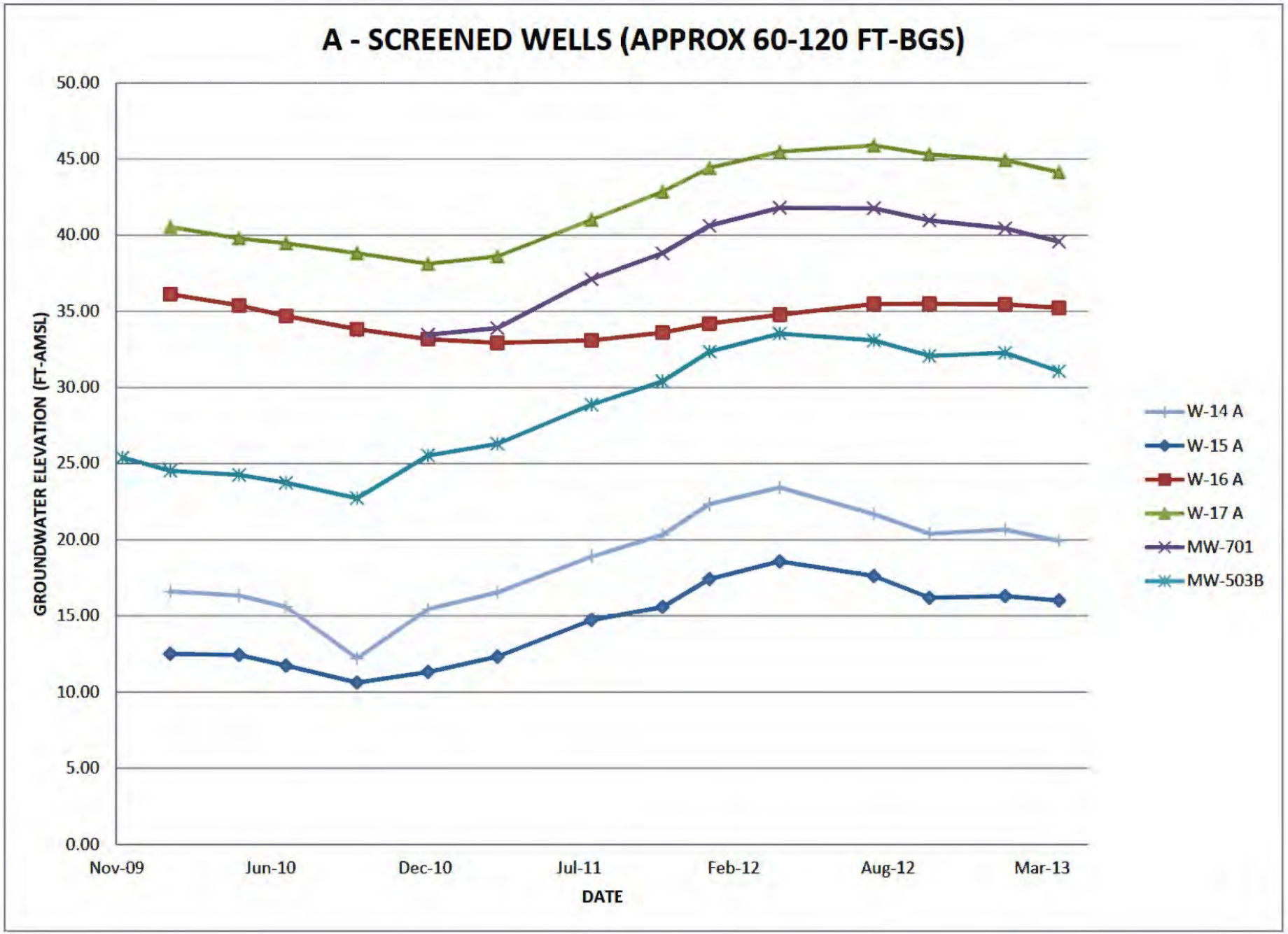
Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

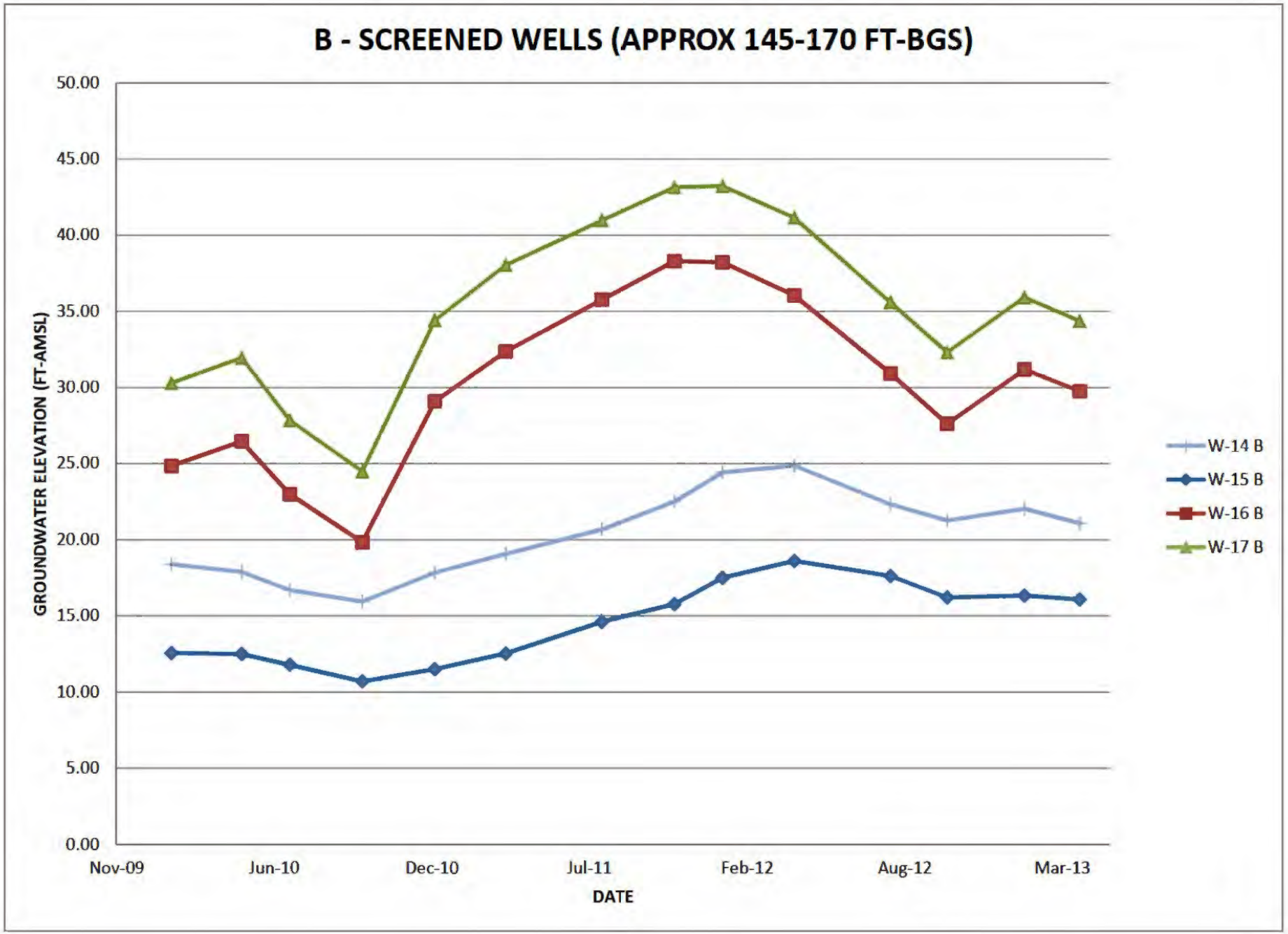
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

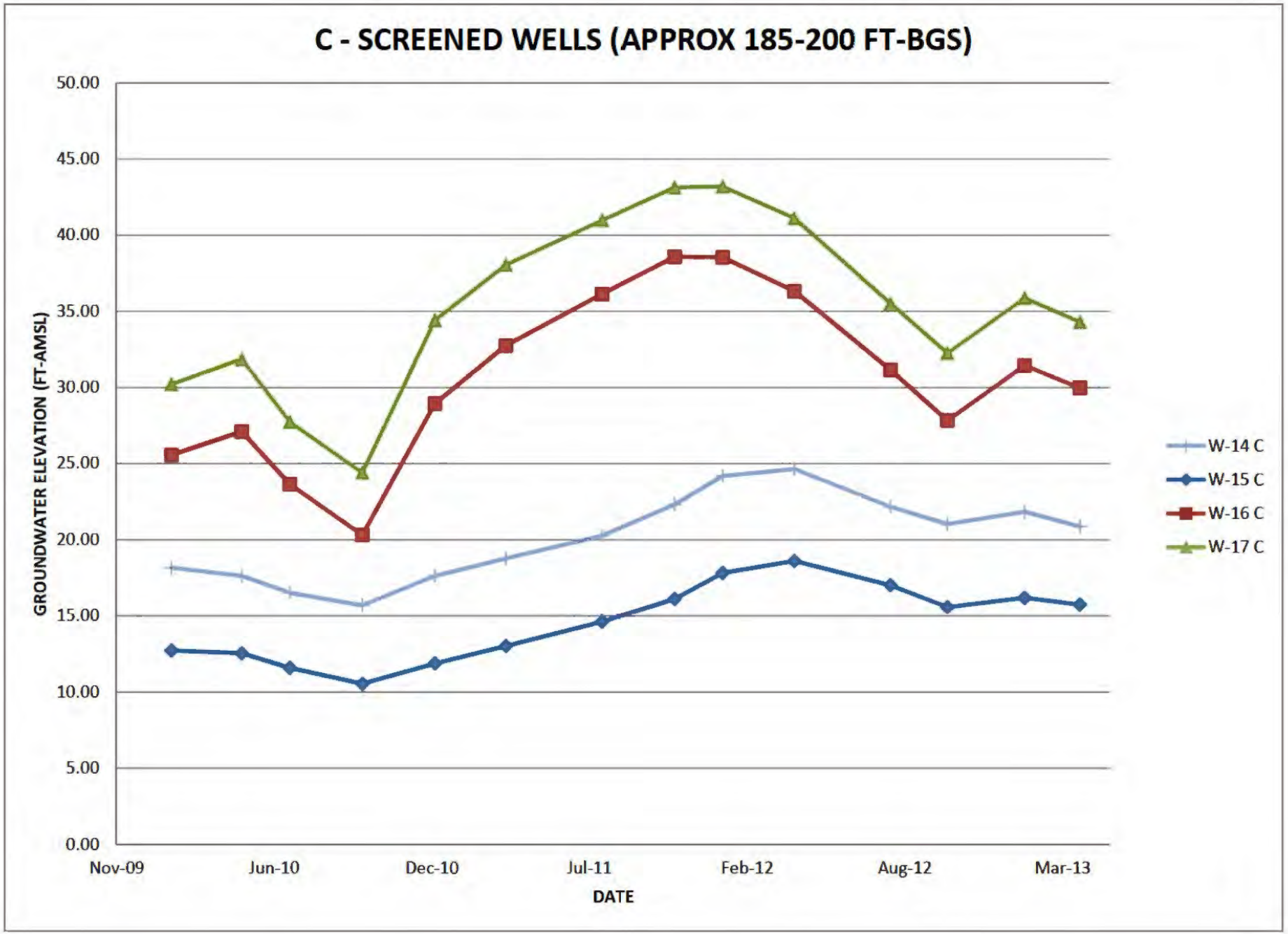
* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date BC 4/15/13

Comments:

Appendix C


A - SCREENED WELLS (APPROX 60-120 FT-BGS)
GROUNDWATER ELEVATION (FT-AMSL)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Nov-09
Jun-10
Dec-10
Jul-11
Feb-12
Aug-12
Mar-13
DATE
W-14 A
W-15 A
W-16 A
W-17 A
MW-701
MW-503B


B - SCREENED WELLS (APPROX 145-170 FT-BGS)
GROUNDWATER ELEVATION (FT-AMSL)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Nov-09
Jun-10
Dec-10
Jul-11
Feb-12
Aug-12
Mar-13
DATE
W-14 B
W-15 B
W-16 B
W-17 B


C - SCREENED WELLS (APPROX 185-200 FT-BGS)
GROUNDWATER ELEVATION (FT-AMSL)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Nov-09
Jun-10
Dec-10
Jul-11
Feb-12
Aug-12
Mar-13
DATE
W-14 C
W-15 C
W-16 C
W-17 C